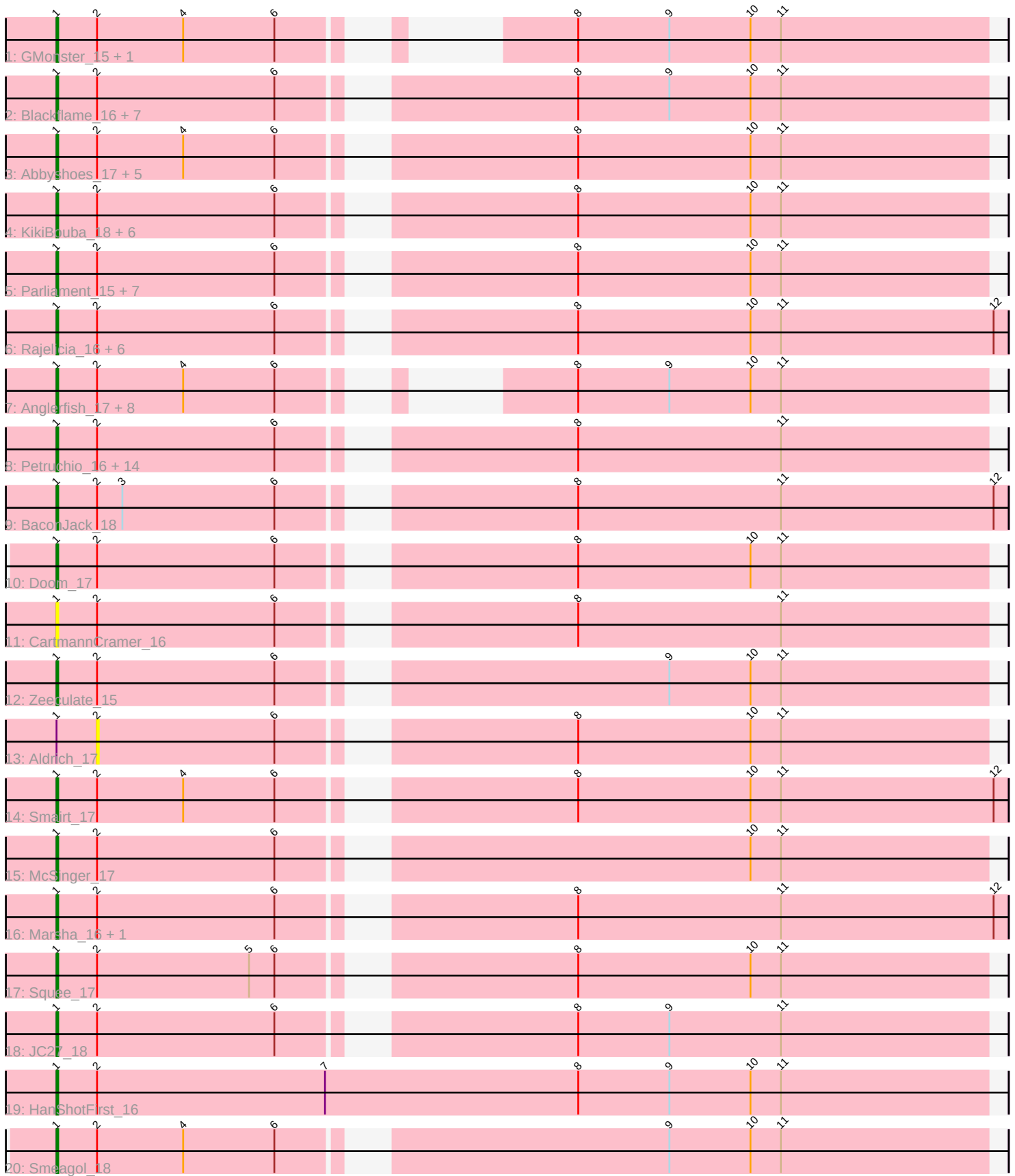


Pham 321351



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 321351 Report

This analysis was run 09/05/26 on database version 662.

Pham number 321351 has 75 members, 6 are drafts.

Phages represented in each track:

- Track 1 : GMonster_15, Briton15_18
- Track 2 : Blackflame_16, Bigchung_16, Rufus_17, STLscum_17, Carlyle_18, ShortQueendom_16, Sibs6_18, Wheeler_16
- Track 3 : Abbyshoes_17, Corvo_16, Kenmech_19, Peterson_19, Tripl3t_17, Dussy_17
- Track 4 : KikiBouba_18, Hermia_18, DirtDevil_17, GroundGoblin_17, Noxious_18, CatBus_17, Gyzlar_18
- Track 5 : Parliament_15, Hope4ever_16, Licorice_18, Marcell_16, TheloniousMonk_18, Bircsak_16, Gompeii16_16, Buttons_17
- Track 6 : Rajelicia_16, Francis47_16, Arcanine_17, Traft412_18, RidgeCB_16, DrFeelGood_15, Papez_18
- Track 7 : Anglerfish_17, Switzer_17, U2_16, DreamCatcher_19, Manatee_17, Zephyr_16, Agaliana_16, NEHalo_16, HermioneGrange_16
- Track 8 : Petruchio_16, LilBib_17, Naira_17, Alvin_17, Froghopper_17, StrongArm_15, Treddle_18, Gwendoluna_18, PowerRanger_16, SarFire_16, Thor_16, Monet_18, Bexan_15, Fenn_17, Edtherson_17
- Track 9 : BaconJack_18
- Track 10 : Doom_17
- Track 11 : CartmannCramer_16
- Track 12 : Zeeculate_15
- Track 13 : Aldrich_17
- Track 14 : Smairt_17
- Track 15 : McSinger_17
- Track 16 : Marsha_16, Nhonho_16
- Track 17 : Squee_17
- Track 18 : JC27_18
- Track 19 : HanShotFirst_16
- Track 20 : Smeagol_18

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 69 of the 69 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abbyshoes_17, Agaliana_16, Alvin_17, Anglerfish_17, Arcanine_17, BaconJack_18, Bexan_15, Bigchung_16, Bircsak_16, Blackflame_16, Briton15_18, Buttons_17, Carlyle_18, CartmannCramer_16, CatBus_17, Corvo_16, DirtDevil_17, Doom_17, DrFeelGood_15, DreamCatcher_19, Dussy_17, Edtherson_17, Fenn_17, Francis47_16, Froghopper_17, GMonster_15, Gompeii16_16, GroundGoblin_17, Gwendoluna_18, Gyzlar_18, HanShotFirst_16, Hermia_18, HermioneGrange_16, Hope4ever_16, JC27_18, Kenmech_19, KikiBouba_18, Licorice_18, LilBib_17, Manatee_17, Marcell_16, Marsha_16, McSinger_17, Monet_18, NEHalo_16, Naira_17, Nhonho_16, Noxious_18, Papez_18, Parliament_15, Peterson_19, Petruchio_16, PowerRanger_16, Rajelicia_16, RidgeCB_16, Rufus_17, STLscum_17, SarFire_16, ShortQueendom_16, Sibs6_18, Smairt_17, Smeagol_18, Squee_17, StrongArm_15, Switzer_17, TheloniousMonk_18, Thor_16, Traft412_18, Treddle_18, Tripl3t_17, U2_16, Wheeler_16, Zeeculate_15, Zephyr_16,

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

- Aldrich_17,

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

-

Summary by start number:

Start 1:

- Found in 75 of 75 (100.0%) of genes in pham
- Manual Annotations of this start: 69 of 69
- Called 98.7% of time when present
- Phage (with cluster) where this start called: Abbyshoes_17 (A1), Agaliana_16 (A1), Alvin_17 (A1), Anglerfish_17 (A1), Arcanine_17 (A1), BaconJack_18 (A1), Bexan_15 (A1), Bigchung_16 (A1), Bircsak_16 (A1), Blackflame_16 (A1), Briton15_18 (A1), Buttons_17 (A1), Carlyle_18 (A1), CartmannCramer_16 (A1), CatBus_17 (A1), Corvo_16 (A1), DirtDevil_17 (A1), Doom_17 (A1), DrFeelGood_15 (A1), DreamCatcher_19 (A1), Dussy_17 (A1), Edtherson_17 (A1), Fenn_17 (A1), Francis47_16 (A1), Froghopper_17 (A1), GMonster_15 (A1), Gompeii16_16 (A1), GroundGoblin_17 (A1), Gwendoluna_18 (A1), Gyzlar_18 (A1), HanShotFirst_16 (A1), Hermia_18 (A1), HermioneGrange_16 (A1), Hope4ever_16 (A1), JC27_18 (A1), Kenmech_19 (A1), KikiBouba_18 (A1), Licorice_18 (A1), LilBib_17 (A1), Manatee_17 (A1), Marcell_16 (A1), Marsha_16 (A1), McSinger_17 (A1), Monet_18 (A1), NEHalo_16 (A1), Naira_17 (A1), Nhonho_16 (A1), Noxious_18 (A1), Papez_18 (A1), Parliament_15 (A1), Peterson_19 (A1), Petruchio_16 (A1), PowerRanger_16 (A1), Rajelicia_16 (A1), RidgeCB_16 (A1), Rufus_17 (A1), STLscum_17 (A1), SarFire_16 (A1), ShortQueendom_16 (A1), Sibs6_18 (A1), Smairt_17 (A1), Smeagol_18 (A1), Squee_17 (A1), StrongArm_15 (A1), Switzer_17 (A1), TheloniousMonk_18 (A1), Thor_16 (A1), Traft412_18 (A1), Treddle_18 (A1), Tripl3t_17 (A1), U2_16 (A1), Wheeler_16 (A1), Zeeculate_15 (A1), Zephyr_16 (A1),

Start 2:

- Found in 75 of 75 (100.0%) of genes in pham
- No Manual Annotations of this start.
- Called 1.3% of time when present
- Phage (with cluster) where this start called: Aldrich_17 (A1),

Summary by clusters:

There is one cluster represented in this pham: A1

Info for manual annotations of cluster A1:

•Start number 1 was manually annotated 69 times for cluster A1.

Gene Information:

Gene: Abbyshoes_17 Start: 12688, Stop: 13206, Start Num: 1

Candidate Starts for Abbyshoes_17:

(Start: 1 @12688 has 69 MA's), (2, 12712), (4, 12763), (6, 12817), (8, 12964), (10, 13066), (11, 13084),

Gene: Agaliana_16 Start: 12737, Stop: 13198, Start Num: 1

Candidate Starts for Agaliana_16:

(Start: 1 @12737 has 69 MA's), (2, 12761), (4, 12812), (6, 12866), (8, 12956), (9, 13010), (10, 13058), (11, 13076),

Gene: Aldrich_17 Start: 13253, Stop: 13747, Start Num: 2

Candidate Starts for Aldrich_17:

(Start: 1 @13229 has 69 MA's), (2, 13253), (6, 13358), (8, 13505), (10, 13607), (11, 13625),

Gene: Alvin_17 Start: 12938, Stop: 13456, Start Num: 1

Candidate Starts for Alvin_17:

(Start: 1 @12938 has 69 MA's), (2, 12962), (6, 13067), (8, 13214), (11, 13334),

Gene: Anglerfish_17 Start: 13657, Stop: 14118, Start Num: 1

Candidate Starts for Anglerfish_17:

(Start: 1 @13657 has 69 MA's), (2, 13681), (4, 13732), (6, 13786), (8, 13876), (9, 13930), (10, 13978), (11, 13996),

Gene: Arcanine_17 Start: 12607, Stop: 13137, Start Num: 1

Candidate Starts for Arcanine_17:

(Start: 1 @12607 has 69 MA's), (2, 12631), (6, 12736), (8, 12883), (10, 12985), (11, 13003), (12, 13129),

Gene: BaconJack_18 Start: 12707, Stop: 13237, Start Num: 1

Candidate Starts for BaconJack_18:

(Start: 1 @12707 has 69 MA's), (2, 12731), (3, 12746), (6, 12836), (8, 12983), (11, 13103), (12, 13229),

Gene: Bexan_15 Start: 13382, Stop: 13900, Start Num: 1

Candidate Starts for Bexan_15:

(Start: 1 @13382 has 69 MA's), (2, 13406), (6, 13511), (8, 13658), (11, 13778),

Gene: Bigchung_16 Start: 12405, Stop: 12923, Start Num: 1

Candidate Starts for Bigchung_16:

(Start: 1 @12405 has 69 MA's), (2, 12429), (6, 12534), (8, 12681), (9, 12735), (10, 12783), (11, 12801),

Gene: Bircsak_16 Start: 12891, Stop: 13409, Start Num: 1

Candidate Starts for Bircsak_16:

(Start: 1 @12891 has 69 MA's), (2, 12915), (6, 13020), (8, 13167), (10, 13269), (11, 13287),

Gene: Blackflame_16 Start: 12414, Stop: 12932, Start Num: 1

Candidate Starts for Blackflame_16:

(Start: 1 @12414 has 69 MA's), (2, 12438), (6, 12543), (8, 12690), (9, 12744), (10, 12792), (11, 12810),

Gene: Briton15_18 Start: 12751, Stop: 13212, Start Num: 1

Candidate Starts for Briton15_18:

(Start: 1 @12751 has 69 MA's), (2, 12775), (4, 12826), (6, 12880), (8, 12970), (9, 13024), (10, 13072), (11, 13090),

Gene: Buttons_17 Start: 12879, Stop: 13397, Start Num: 1

Candidate Starts for Buttons_17:

(Start: 1 @12879 has 69 MA's), (2, 12903), (6, 13008), (8, 13155), (10, 13257), (11, 13275),

Gene: Carlyle_18 Start: 13261, Stop: 13779, Start Num: 1

Candidate Starts for Carlyle_18:

(Start: 1 @13261 has 69 MA's), (2, 13285), (6, 13390), (8, 13537), (9, 13591), (10, 13639), (11, 13657),

Gene: CartmannCramer_16 Start: 14229, Stop: 14747, Start Num: 1

Candidate Starts for CartmannCramer_16:

(Start: 1 @14229 has 69 MA's), (2, 14253), (6, 14358), (8, 14505), (11, 14625),

Gene: CatBus_17 Start: 13421, Stop: 13939, Start Num: 1

Candidate Starts for CatBus_17:

(Start: 1 @13421 has 69 MA's), (2, 13445), (6, 13550), (8, 13697), (10, 13799), (11, 13817),

Gene: Corvo_16 Start: 12850, Stop: 13368, Start Num: 1

Candidate Starts for Corvo_16:

(Start: 1 @12850 has 69 MA's), (2, 12874), (4, 12925), (6, 12979), (8, 13126), (10, 13228), (11, 13246),

Gene: DirtDevil_17 Start: 13229, Stop: 13747, Start Num: 1

Candidate Starts for DirtDevil_17:

(Start: 1 @13229 has 69 MA's), (2, 13253), (6, 13358), (8, 13505), (10, 13607), (11, 13625),

Gene: Doom_17 Start: 13116, Stop: 13634, Start Num: 1

Candidate Starts for Doom_17:

(Start: 1 @13116 has 69 MA's), (2, 13140), (6, 13245), (8, 13392), (10, 13494), (11, 13512),

Gene: DrFeelGood_15 Start: 12456, Stop: 12986, Start Num: 1

Candidate Starts for DrFeelGood_15:

(Start: 1 @12456 has 69 MA's), (2, 12480), (6, 12585), (8, 12732), (10, 12834), (11, 12852), (12, 12978),

Gene: DreamCatcher_19 Start: 13882, Stop: 14343, Start Num: 1

Candidate Starts for DreamCatcher_19:

(Start: 1 @13882 has 69 MA's), (2, 13906), (4, 13957), (6, 14011), (8, 14101), (9, 14155), (10, 14203), (11, 14221),

Gene: Dussy_17 Start: 12688, Stop: 13206, Start Num: 1

Candidate Starts for Dussy_17:

(Start: 1 @12688 has 69 MA's), (2, 12712), (4, 12763), (6, 12817), (8, 12964), (10, 13066), (11, 13084),

Gene: Edtherson_17 Start: 13186, Stop: 13704, Start Num: 1

Candidate Starts for Edtherson_17:

(Start: 1 @13186 has 69 MA's), (2, 13210), (6, 13315), (8, 13462), (11, 13582),

Gene: Fenn_17 Start: 13992, Stop: 14453, Start Num: 1

Candidate Starts for Fenn_17:

(Start: 1 @13992 has 69 MA's), (2, 14016), (6, 14121), (8, 14211), (11, 14331),

Gene: Francis47_16 Start: 12932, Stop: 13462, Start Num: 1

Candidate Starts for Francis47_16:

(Start: 1 @12932 has 69 MA's), (2, 12956), (6, 13061), (8, 13208), (10, 13310), (11, 13328), (12, 13454),

Gene: Froghopper_17 Start: 12360, Stop: 12878, Start Num: 1

Candidate Starts for Froghopper_17:

(Start: 1 @12360 has 69 MA's), (2, 12384), (6, 12489), (8, 12636), (11, 12756),

Gene: GMonster_15 Start: 12300, Stop: 12761, Start Num: 1

Candidate Starts for GMonster_15:

(Start: 1 @12300 has 69 MA's), (2, 12324), (4, 12375), (6, 12429), (8, 12519), (9, 12573), (10, 12621), (11, 12639),

Gene: Gompeii16_16 Start: 12892, Stop: 13410, Start Num: 1

Candidate Starts for Gompeii16_16:

(Start: 1 @12892 has 69 MA's), (2, 12916), (6, 13021), (8, 13168), (10, 13270), (11, 13288),

Gene: GroundGoblin_17 Start: 13229, Stop: 13747, Start Num: 1

Candidate Starts for GroundGoblin_17:

(Start: 1 @13229 has 69 MA's), (2, 13253), (6, 13358), (8, 13505), (10, 13607), (11, 13625),

Gene: Gwendoluna_18 Start: 13861, Stop: 14322, Start Num: 1

Candidate Starts for Gwendoluna_18:

(Start: 1 @13861 has 69 MA's), (2, 13885), (6, 13990), (8, 14080), (11, 14200),

Gene: Gyzlar_18 Start: 13634, Stop: 14152, Start Num: 1

Candidate Starts for Gyzlar_18:

(Start: 1 @13634 has 69 MA's), (2, 13658), (6, 13763), (8, 13910), (10, 14012), (11, 14030),

Gene: HanShotFirst_16 Start: 12280, Stop: 12831, Start Num: 1

Candidate Starts for HanShotFirst_16:

(Start: 1 @12280 has 69 MA's), (2, 12304), (7, 12439), (8, 12589), (9, 12643), (10, 12691), (11, 12709),

Gene: Hermia_18 Start: 13421, Stop: 13939, Start Num: 1

Candidate Starts for Hermia_18:

(Start: 1 @13421 has 69 MA's), (2, 13445), (6, 13550), (8, 13697), (10, 13799), (11, 13817),

Gene: HermioneGrange_16 Start: 12390, Stop: 12851, Start Num: 1

Candidate Starts for HermioneGrange_16:

(Start: 1 @12390 has 69 MA's), (2, 12414), (4, 12465), (6, 12519), (8, 12609), (9, 12663), (10, 12711), (11, 12729),

Gene: Hope4ever_16 Start: 12809, Stop: 13327, Start Num: 1

Candidate Starts for Hope4ever_16:

(Start: 1 @12809 has 69 MA's), (2, 12833), (6, 12938), (8, 13085), (10, 13187), (11, 13205),

Gene: JC27_18 Start: 13304, Stop: 13822, Start Num: 1

Candidate Starts for JC27_18:

(Start: 1 @13304 has 69 MA's), (2, 13328), (6, 13433), (8, 13580), (9, 13634), (11, 13700),

Gene: Kenmech_19 Start: 13774, Stop: 14292, Start Num: 1

Candidate Starts for Kenmech_19:

(Start: 1 @13774 has 69 MA's), (2, 13798), (4, 13849), (6, 13903), (8, 14050), (10, 14152), (11, 14170),

Gene: KikiBouba_18 Start: 13230, Stop: 13748, Start Num: 1

Candidate Starts for KikiBouba_18:

(Start: 1 @13230 has 69 MA's), (2, 13254), (6, 13359), (8, 13506), (10, 13608), (11, 13626),

Gene: Licorice_18 Start: 13300, Stop: 13818, Start Num: 1

Candidate Starts for Licorice_18:

(Start: 1 @13300 has 69 MA's), (2, 13324), (6, 13429), (8, 13576), (10, 13678), (11, 13696),

Gene: LilBib_17 Start: 13230, Stop: 13748, Start Num: 1

Candidate Starts for LilBib_17:

(Start: 1 @13230 has 69 MA's), (2, 13254), (6, 13359), (8, 13506), (11, 13626),

Gene: Manatee_17 Start: 12678, Stop: 13139, Start Num: 1

Candidate Starts for Manatee_17:

(Start: 1 @12678 has 69 MA's), (2, 12702), (4, 12753), (6, 12807), (8, 12897), (9, 12951), (10, 12999), (11, 13017),

Gene: Marcell_16 Start: 12619, Stop: 13137, Start Num: 1

Candidate Starts for Marcell_16:

(Start: 1 @12619 has 69 MA's), (2, 12643), (6, 12748), (8, 12895), (10, 12997), (11, 13015),

Gene: Marsha_16 Start: 12875, Stop: 13405, Start Num: 1

Candidate Starts for Marsha_16:

(Start: 1 @12875 has 69 MA's), (2, 12899), (6, 13004), (8, 13151), (11, 13271), (12, 13397),

Gene: McSinger_17 Start: 12814, Stop: 13332, Start Num: 1

Candidate Starts for McSinger_17:

(Start: 1 @12814 has 69 MA's), (2, 12838), (6, 12943), (10, 13192), (11, 13210),

Gene: Monet_18 Start: 13656, Stop: 14174, Start Num: 1

Candidate Starts for Monet_18:

(Start: 1 @13656 has 69 MA's), (2, 13680), (6, 13785), (8, 13932), (11, 14052),

Gene: NEHalo_16 Start: 12240, Stop: 12701, Start Num: 1

Candidate Starts for NEHalo_16:

(Start: 1 @12240 has 69 MA's), (2, 12264), (4, 12315), (6, 12369), (8, 12459), (9, 12513), (10, 12561), (11, 12579),

Gene: Naira_17 Start: 13992, Stop: 14453, Start Num: 1

Candidate Starts for Naira_17:

(Start: 1 @13992 has 69 MA's), (2, 14016), (6, 14121), (8, 14211), (11, 14331),

Gene: Nhonho_16 Start: 12600, Stop: 13130, Start Num: 1

Candidate Starts for Nhonho_16:

(Start: 1 @12600 has 69 MA's), (2, 12624), (6, 12729), (8, 12876), (11, 12996), (12, 13122),

Gene: Noxious_18 Start: 13421, Stop: 13939, Start Num: 1

Candidate Starts for Noxious_18:

(Start: 1 @13421 has 69 MA's), (2, 13445), (6, 13550), (8, 13697), (10, 13799), (11, 13817),

Gene: Papez_18 Start: 14127, Stop: 14600, Start Num: 1

Candidate Starts for Papez_18:

(Start: 1 @14127 has 69 MA's), (2, 14151), (6, 14256), (8, 14346), (10, 14448), (11, 14466), (12, 14592),

Gene: Parliament_15 Start: 12499, Stop: 13017, Start Num: 1

Candidate Starts for Parliament_15:

(Start: 1 @12499 has 69 MA's), (2, 12523), (6, 12628), (8, 12775), (10, 12877), (11, 12895),

Gene: Peterson_19 Start: 14109, Stop: 14627, Start Num: 1

Candidate Starts for Peterson_19:

(Start: 1 @14109 has 69 MA's), (2, 14133), (4, 14184), (6, 14238), (8, 14385), (10, 14487), (11, 14505),

Gene: Petruchio_16 Start: 12360, Stop: 12878, Start Num: 1

Candidate Starts for Petruchio_16:

(Start: 1 @12360 has 69 MA's), (2, 12384), (6, 12489), (8, 12636), (11, 12756),

Gene: PowerRanger_16 Start: 12990, Stop: 13508, Start Num: 1

Candidate Starts for PowerRanger_16:

(Start: 1 @12990 has 69 MA's), (2, 13014), (6, 13119), (8, 13266), (11, 13386),

Gene: Rajelicia_16 Start: 12636, Stop: 13166, Start Num: 1

Candidate Starts for Rajelicia_16:

(Start: 1 @12636 has 69 MA's), (2, 12660), (6, 12765), (8, 12912), (10, 13014), (11, 13032), (12, 13158),

Gene: RidgeCB_16 Start: 12260, Stop: 12733, Start Num: 1

Candidate Starts for RidgeCB_16:

(Start: 1 @12260 has 69 MA's), (2, 12284), (6, 12389), (8, 12479), (10, 12581), (11, 12599), (12, 12725),

Gene: Rufus_17 Start: 12806, Stop: 13324, Start Num: 1

Candidate Starts for Rufus_17:

(Start: 1 @12806 has 69 MA's), (2, 12830), (6, 12935), (8, 13082), (9, 13136), (10, 13184), (11, 13202),

Gene: STLscum_17 Start: 12849, Stop: 13367, Start Num: 1

Candidate Starts for STLscum_17:

(Start: 1 @12849 has 69 MA's), (2, 12873), (6, 12978), (8, 13125), (9, 13179), (10, 13227), (11, 13245),

Gene: SarFire_16 Start: 12515, Stop: 13033, Start Num: 1

Candidate Starts for SarFire_16:

(Start: 1 @12515 has 69 MA's), (2, 12539), (6, 12644), (8, 12791), (11, 12911),

Gene: ShortQueendom_16 Start: 12321, Stop: 12839, Start Num: 1

Candidate Starts for ShortQueendom_16:

(Start: 1 @12321 has 69 MA's), (2, 12345), (6, 12450), (8, 12597), (9, 12651), (10, 12699), (11, 12717),

Gene: Sibs6_18 Start: 12958, Stop: 13476, Start Num: 1

Candidate Starts for Sibs6_18:

(Start: 1 @12958 has 69 MA's), (2, 12982), (6, 13087), (8, 13234), (9, 13288), (10, 13336), (11, 13354),

Gene: Smairt_17 Start: 13129, Stop: 13659, Start Num: 1

Candidate Starts for Smairt_17:

(Start: 1 @13129 has 69 MA's), (2, 13153), (4, 13204), (6, 13258), (8, 13405), (10, 13507), (11, 13525), (12, 13651),

Gene: Smeagol_18 Start: 13730, Stop: 14248, Start Num: 1

Candidate Starts for Smeagol_18:

(Start: 1 @13730 has 69 MA's), (2, 13754), (4, 13805), (6, 13859), (9, 14060), (10, 14108), (11, 14126),

Gene: Squee_17 Start: 13131, Stop: 13649, Start Num: 1

Candidate Starts for Squee_17:

(Start: 1 @13131 has 69 MA's), (2, 13155), (5, 13245), (6, 13260), (8, 13407), (10, 13509), (11, 13527),

Gene: StrongArm_15 Start: 13382, Stop: 13900, Start Num: 1

Candidate Starts for StrongArm_15:

(Start: 1 @13382 has 69 MA's), (2, 13406), (6, 13511), (8, 13658), (11, 13778),

Gene: Switzer_17 Start: 12610, Stop: 13071, Start Num: 1

Candidate Starts for Switzer_17:

(Start: 1 @12610 has 69 MA's), (2, 12634), (4, 12685), (6, 12739), (8, 12829), (9, 12883), (10, 12931), (11, 12949),

Gene: TheloniousMonk_18 Start: 13677, Stop: 14195, Start Num: 1

Candidate Starts for TheloniousMonk_18:

(Start: 1 @13677 has 69 MA's), (2, 13701), (6, 13806), (8, 13953), (10, 14055), (11, 14073),

Gene: Thor_16 Start: 12515, Stop: 13033, Start Num: 1

Candidate Starts for Thor_16:

(Start: 1 @12515 has 69 MA's), (2, 12539), (6, 12644), (8, 12791), (11, 12911),

Gene: Traft412_18 Start: 13332, Stop: 13862, Start Num: 1

Candidate Starts for Traft412_18:

(Start: 1 @13332 has 69 MA's), (2, 13356), (6, 13461), (8, 13608), (10, 13710), (11, 13728), (12, 13854),

Gene: Treddle_18 Start: 13657, Stop: 14175, Start Num: 1

Candidate Starts for Treddle_18:

(Start: 1 @13657 has 69 MA's), (2, 13681), (6, 13786), (8, 13933), (11, 14053),

Gene: Tripl3t_17 Start: 13342, Stop: 13860, Start Num: 1

Candidate Starts for Tripl3t_17:

(Start: 1 @13342 has 69 MA's), (2, 13366), (4, 13417), (6, 13471), (8, 13618), (10, 13720), (11, 13738),

Gene: U2_16 Start: 12616, Stop: 13077, Start Num: 1

Candidate Starts for U2_16:

(Start: 1 @12616 has 69 MA's), (2, 12640), (4, 12691), (6, 12745), (8, 12835), (9, 12889), (10, 12937), (11, 12955),

Gene: Wheeler_16 Start: 12709, Stop: 13227, Start Num: 1

Candidate Starts for Wheeler_16:

(Start: 1 @12709 has 69 MA's), (2, 12733), (6, 12838), (8, 12985), (9, 13039), (10, 13087), (11, 13105),

Gene: Zeeculate_15 Start: 12395, Stop: 12913, Start Num: 1

Candidate Starts for Zeeculate_15:

(Start: 1 @12395 has 69 MA's), (2, 12419), (6, 12524), (9, 12725), (10, 12773), (11, 12791),

Gene: Zephyr_16 Start: 12544, Stop: 13005, Start Num: 1

Candidate Starts for Zephyr_16:

(Start: 1 @12544 has 69 MA's), (2, 12568), (4, 12619), (6, 12673), (8, 12763), (9, 12817), (10, 12865),
(11, 12883),