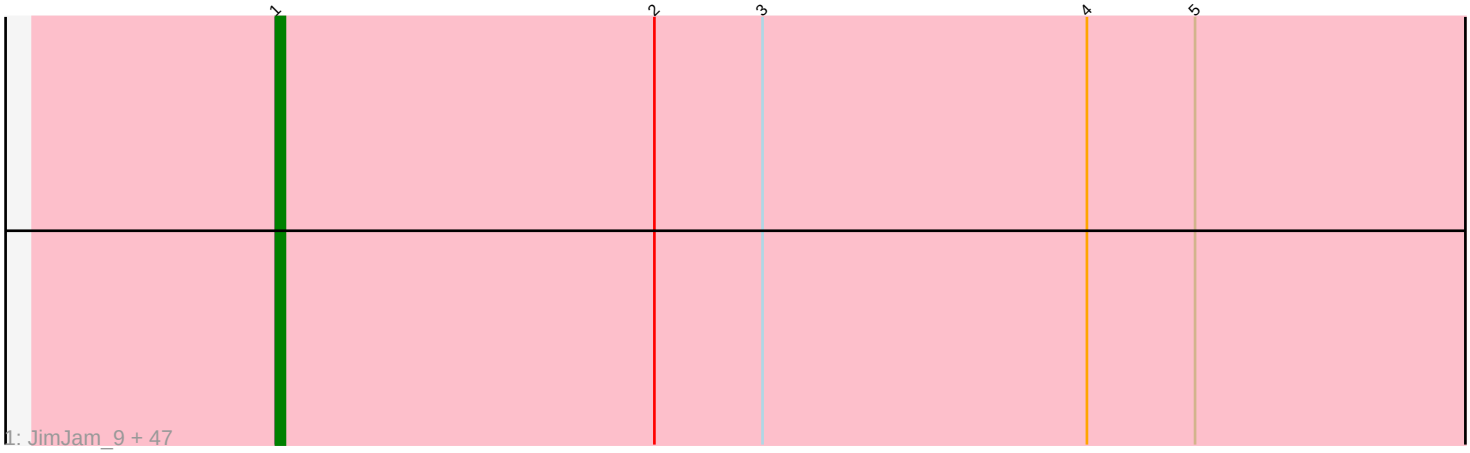
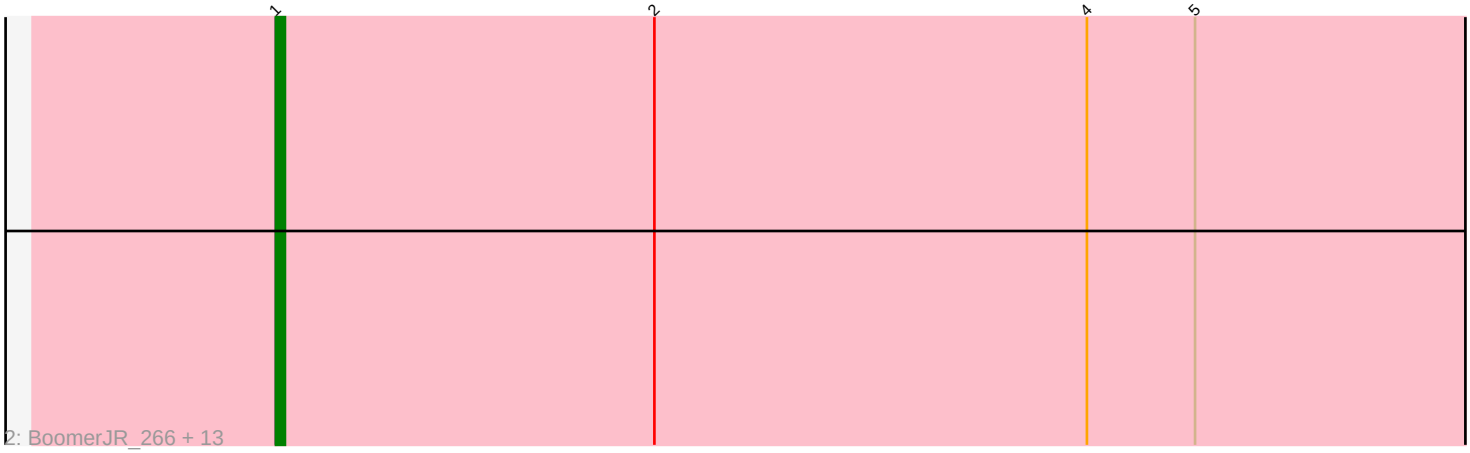
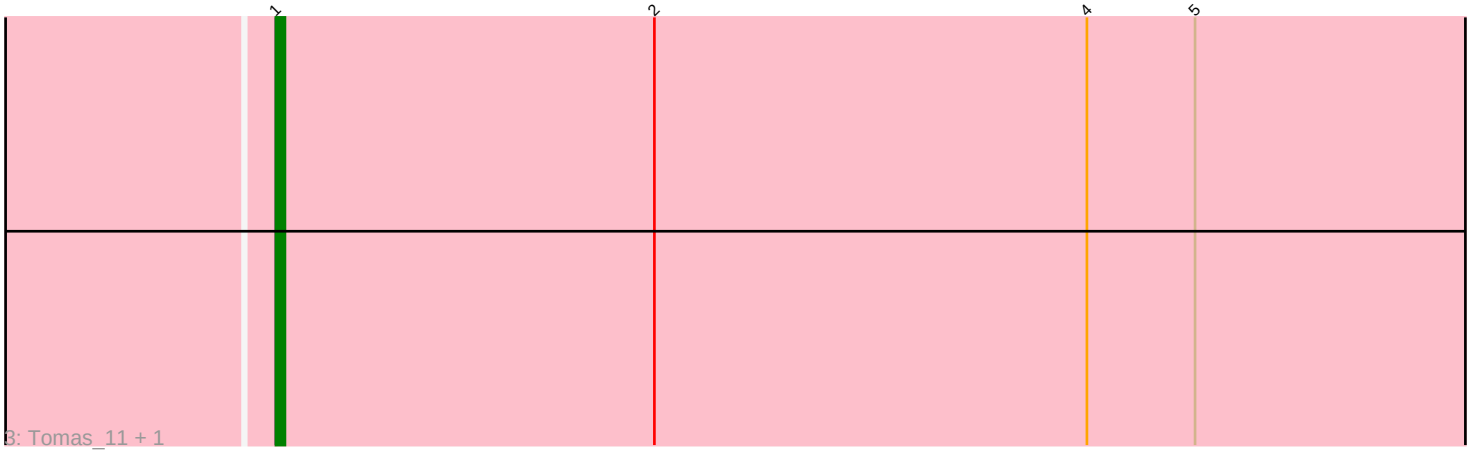
Pham 1849







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 1849 Report

This analysis was run 04/28/24 on database version 559.

Pham number 1849 has 64 members, 12 are drafts.

Phages represented in each track:
• Track 1 : JimJam_9, Spelly_9, CeilingFan_8, Quaran19_270, TomSawyer_9, Karimac_9, Gibbi_279, Birchlyn_6, Jollison_9, StarPlatinum_278, JimJam_277, Spilled_276, Starbow_9, Gibbi_8, Wipeout_261, Wofford_10, Elmer_12, Battuta_9, Amabiko_9, MindFlayer_8, KentuckyRacer_9, Battuta_266, Wofford_268, IchabodCrane_261, Starbow_266, Quaran19_9, Spelly_275, Birchlyn_266, LukeCage_8, LukeCage_271, CeilingFan_282, SaltySpitoon_9, KentuckyRacer_283, Spilled_8, Jollison_273, SaltySpitoon_269, StarPlatinum_8, TomSawyer_274, Elmer_288, Amabiko_273, PumpkinSpice_9, Wipeout_8, IchabodCrane_8, Bordeaux_266, Karimac_267, PumpkinSpice_273, Bordeaux_9, MindFlayer_260
• Track 2 : BoomerJR_266, Stanimal_266, Sollertia_11, Sollertia_267, Stanimal_11, BoomerJR_11, Genie2_11, Mugiwara_280, Enygma_8, Genie2_266, Yaboi_272, Yaboi_11, Mugiwara_8, Enygma_276
• Track 3 : Tomas_11, Tomas_267

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

Genes that call this "Most Annotated" start:
• Amabiko_273, Amabiko_9, Battuta_266, Battuta_9, Birchlyn_266, Birchlyn_6, BoomerJR_11, BoomerJR_266, Bordeaux_266, Bordeaux_9, CeilingFan_282, CeilingFan_8, Elmer_12, Elmer_288, Enygma_276, Enygma_8, Genie2_11, Genie2_266, Gibbi_279, Gibbi_8, IchabodCrane_261, IchabodCrane_8, JimJam_277, JimJam_9, Jollison_273, Jollison_9, Karimac_267, Karimac_9, KentuckyRacer_283, KentuckyRacer_9, LukeCage_271, LukeCage_8, MindFlayer_260, MindFlayer_8, Mugiwara_280, Mugiwara_8, PumpkinSpice_273, PumpkinSpice_9, Quaran19_270, Quaran19_9, SaltySpitoon_269, SaltySpitoon_9, Sollertia_11, Sollertia_267, Spelly_275, Spelly_9, Spilled_276, Spilled_8, Stanimal_11, Stanimal_266, StarPlatinum_278, StarPlatinum_8, Starbow_266, Starbow_9, TomSawyer_274, TomSawyer_9, Tomas_11, Tomas_267, Wipeout_261, Wipeout_8, Wofford_10, Wofford_268, Yaboi_11, Yaboi_272,

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 64 of 64 (100.0%) of genes in pham
• Manual Annotations of this start: 52 of 52
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amabiko_273 (BE2), Amabiko_9 (BE2), Battuta_266 (BE2), Battuta_9 (BE2), Birchlyn_266 (BE2), Birchlyn_6 (BE2), BoomerJR_11 (BE2), BoomerJR_266 (BE2), Bordeaux_266 (BE2), Bordeaux_9 (BE2), CeilingFan_282 (BE2), CeilingFan_8 (BE2), Elmer_12 (BE2), Elmer_288 (BE2), Enygma_276 (BE2), Enygma_8 (BE2), Genie2_11 (BE2), Genie2_266 (BE2), Gibbi_279 (BE2), Gibbi_8 (BE2), IchabodCrane_261 (BE2), IchabodCrane_8 (BE2), JimJam_277 (BE2), JimJam_9 (BE2), Jollison_273 (BE2), Jollison_9 (BE2), Karimac_267 (BE2), Karimac_9 (BE2), KentuckyRacer_283 (BE2), KentuckyRacer_9 (BE2), LukeCage_271 (BE2), LukeCage_8 (BE2), MindFlayer_260 (BE2), MindFlayer_8 (BE2), Mugiwara_280 (BE2), Mugiwara_8 (BE2), PumpkinSpice_273 (BE2), PumpkinSpice_9 (BE2), Quaran19_270 (BE2), Quaran19_9 (BE2), SaltySpitoon_269 (BE2), SaltySpitoon_9 (BE2), Sollertia_11 (BE2), Sollertia_267 (BE2), Spelly_275 (BE2), Spelly_9 (BE2), Spilled_276 (BE2), Spilled_8 (BE2), Stanimal_11 (BE2), Stanimal_266 (BE2), StarPlatinum_278 (BE2), StarPlatinum_8 (BE2), Starbow_266 (BE2), Starbow_9 (BE2), TomSawyer_274 (BE2), TomSawyer_9 (BE2), Tomas_11 (BE2), Tomas_267 (BE2), Wipeout_261 (BE2), Wipeout_8 (BE2), Wofford_10 (BE2), Wofford_268 (BE2), Yaboi_11 (BE2), Yaboi_272 (BE2),

Summary by clusters:

There is one cluster represented in this pham: BE2

Info for manual annotations of cluster BE2:
•Start number 1 was manually annotated 52 times for cluster BE2.

Gene Information:

Gene: Amabiko_9 Start: 5530, Stop: 5366, Start Num: 1
Candidate Starts for Amabiko_9:
(Start: 1 @5530 has 52 MA's), (2, 5488), (3, 5476), (4, 5440), (5, 5428),

Gene: Amabiko_273 Start: 124356, Stop: 124192, Start Num: 1
Candidate Starts for Amabiko_273:
(Start: 1 @124356 has 52 MA's), (2, 124314), (3, 124302), (4, 124266), (5, 124254),

Gene: Battuta_9 Start: 5530, Stop: 5366, Start Num: 1
Candidate Starts for Battuta_9:
(Start: 1 @5530 has 52 MA's), (2, 5488), (3, 5476), (4, 5440), (5, 5428),

Gene: Battuta_266 Start: 123685, Stop: 123521, Start Num: 1

Candidate Starts for Battuta_266:
(Start: 1 @123685 has 52 MA's), (2, 123643), (3, 123631), (4, 123595), (5, 123583),

Gene: Birchlyn_6 Start: 3383, Stop: 3219, Start Num: 1
Candidate Starts for Birchlyn_6:
(Start: 1 @3383 has 52 MA's), (2, 3341), (3, 3329), (4, 3293), (5, 3281),

Gene: Birchlyn_266 Start: 119474, Stop: 119310, Start Num: 1
Candidate Starts for Birchlyn_266:
(Start: 1 @119474 has 52 MA's), (2, 119432), (3, 119420), (4, 119384), (5, 119372),

Gene: BoomerJR_266 Start: 124680, Stop: 124516, Start Num: 1
Candidate Starts for BoomerJR_266:
(Start: 1 @124680 has 52 MA's), (2, 124638), (4, 124590), (5, 124578),

Gene: BoomerJR_11 Start: 5892, Stop: 5728, Start Num: 1
Candidate Starts for BoomerJR_11:
(Start: 1 @5892 has 52 MA's), (2, 5850), (4, 5802), (5, 5790),

Gene: Bordeaux_266 Start: 124268, Stop: 124104, Start Num: 1
Candidate Starts for Bordeaux_266:
(Start: 1 @124268 has 52 MA's), (2, 124226), (3, 124214), (4, 124178), (5, 124166),

Gene: Bordeaux_9 Start: 5530, Stop: 5366, Start Num: 1
Candidate Starts for Bordeaux_9:
(Start: 1 @5530 has 52 MA's), (2, 5488), (3, 5476), (4, 5440), (5, 5428),

Gene: CeilingFan_8 Start: 5141, Stop: 4977, Start Num: 1
Candidate Starts for CeilingFan_8:
(Start: 1 @5141 has 52 MA's), (2, 5099), (3, 5087), (4, 5051), (5, 5039),

Gene: CeilingFan_282 Start: 125748, Stop: 125584, Start Num: 1
Candidate Starts for CeilingFan_282:
(Start: 1 @125748 has 52 MA's), (2, 125706), (3, 125694), (4, 125658), (5, 125646),

Gene: Elmer_12 Start: 5618, Stop: 5454, Start Num: 1
Candidate Starts for Elmer_12:
(Start: 1 @5618 has 52 MA's), (2, 5576), (3, 5564), (4, 5528), (5, 5516),

Gene: Elmer_288 Start: 127986, Stop: 127822, Start Num: 1
Candidate Starts for Elmer_288:
(Start: 1 @127986 has 52 MA's), (2, 127944), (3, 127932), (4, 127896), (5, 127884),

Gene: Enygma_8 Start: 5104, Stop: 4940, Start Num: 1
Candidate Starts for Enygma_8:
(Start: 1 @5104 has 52 MA's), (2, 5062), (4, 5014), (5, 5002),

Gene: Enygma_276 Start: 127528, Stop: 127364, Start Num: 1
Candidate Starts for Enygma_276:
(Start: 1 @127528 has 52 MA's), (2, 127486), (4, 127438), (5, 127426),

Gene: Genie2_11 Start: 5892, Stop: 5728, Start Num: 1
Candidate Starts for Genie2_11:

(Start: 1 @5892 has 52 MA's), (2, 5850), (4, 5802), (5, 5790),

Gene: Genie2_266 Start: 124793, Stop: 124629, Start Num: 1
Candidate Starts for Genie2_266:
(Start: 1 @124793 has 52 MA's), (2, 124751), (4, 124703), (5, 124691),

Gene: Gibbi_279 Start: 125241, Stop: 125077, Start Num: 1
Candidate Starts for Gibbi_279:
(Start: 1 @125241 has 52 MA's), (2, 125199), (3, 125187), (4, 125151), (5, 125139),

Gene: Gibbi_8 Start: 5141, Stop: 4977, Start Num: 1
Candidate Starts for Gibbi_8:
(Start: 1 @5141 has 52 MA's), (2, 5099), (3, 5087), (4, 5051), (5, 5039),

Gene: IchabodCrane_261 Start: 123681, Stop: 123517, Start Num: 1
Candidate Starts for IchabodCrane_261:
(Start: 1 @123681 has 52 MA's), (2, 123639), (3, 123627), (4, 123591), (5, 123579),

Gene: IchabodCrane_8 Start: 5138, Stop: 4974, Start Num: 1
Candidate Starts for IchabodCrane_8:
(Start: 1 @5138 has 52 MA's), (2, 5096), (3, 5084), (4, 5048), (5, 5036),

Gene: JimJam_9 Start: 5529, Stop: 5365, Start Num: 1
Candidate Starts for JimJam_9:
(Start: 1 @5529 has 52 MA's), (2, 5487), (3, 5475), (4, 5439), (5, 5427),

Gene: JimJam_277 Start: 127065, Stop: 126901, Start Num: 1
Candidate Starts for JimJam_277:
(Start: 1 @127065 has 52 MA's), (2, 127023), (3, 127011), (4, 126975), (5, 126963),

Gene: Jollison_9 Start: 5530, Stop: 5366, Start Num: 1
Candidate Starts for Jollison_9:
(Start: 1 @5530 has 52 MA's), (2, 5488), (3, 5476), (4, 5440), (5, 5428),

Gene: Jollison_273 Start: 124205, Stop: 124041, Start Num: 1
Candidate Starts for Jollison_273:
(Start: 1 @124205 has 52 MA's), (2, 124163), (3, 124151), (4, 124115), (5, 124103),

Gene: Karimac_9 Start: 5532, Stop: 5368, Start Num: 1
Candidate Starts for Karimac_9:
(Start: 1 @5532 has 52 MA's), (2, 5490), (3, 5478), (4, 5442), (5, 5430),

Gene: Karimac_267 Start: 124851, Stop: 124687, Start Num: 1
Candidate Starts for Karimac_267:
(Start: 1 @124851 has 52 MA's), (2, 124809), (3, 124797), (4, 124761), (5, 124749),

Gene: KentuckyRacer_9 Start: 5142, Stop: 4978, Start Num: 1
Candidate Starts for KentuckyRacer_9:
(Start: 1 @5142 has 52 MA's), (2, 5100), (3, 5088), (4, 5052), (5, 5040),

Gene: KentuckyRacer_283 Start: 126593, Stop: 126429, Start Num: 1
Candidate Starts for KentuckyRacer_283:
(Start: 1 @126593 has 52 MA's), (2, 126551), (3, 126539), (4, 126503), (5, 126491),

Gene: LukeCage_8 Start: 5128, Stop: 4964, Start Num: 1
Candidate Starts for LukeCage_8:
(Start: 1 @5128 has 52 MA's), (2, 5086), (3, 5074), (4, 5038), (5, 5026),

Gene: LukeCage_271 Start: 126032, Stop: 125868, Start Num: 1
Candidate Starts for LukeCage_271:
(Start: 1 @126032 has 52 MA's), (2, 125990), (3, 125978), (4, 125942), (5, 125930),

Gene: MindFlayer_8 Start: 5140, Stop: 4976, Start Num: 1
Candidate Starts for MindFlayer_8:
(Start: 1 @5140 has 52 MA's), (2, 5098), (3, 5086), (4, 5050), (5, 5038),

Gene: MindFlayer_260 Start: 123200, Stop: 123036, Start Num: 1
Candidate Starts for MindFlayer_260:
(Start: 1 @123200 has 52 MA's), (2, 123158), (3, 123146), (4, 123110), (5, 123098),

Gene: Mugiwara_280 Start: 126503, Stop: 126339, Start Num: 1
Candidate Starts for Mugiwara_280:
(Start: 1 @126503 has 52 MA's), (2, 126461), (4, 126413), (5, 126401),

Gene: Mugiwara_8 Start: 5118, Stop: 4954, Start Num: 1
Candidate Starts for Mugiwara_8:
(Start: 1 @5118 has 52 MA's), (2, 5076), (4, 5028), (5, 5016),

Gene: PumpkinSpice_9 Start: 5530, Stop: 5366, Start Num: 1
Candidate Starts for PumpkinSpice_9:
(Start: 1 @5530 has 52 MA's), (2, 5488), (3, 5476), (4, 5440), (5, 5428),

Gene: PumpkinSpice_273 Start: 125422, Stop: 125258, Start Num: 1
Candidate Starts for PumpkinSpice_273:
(Start: 1 @125422 has 52 MA's), (2, 125380), (3, 125368), (4, 125332), (5, 125320),

Gene: Quaran19_270 Start: 124712, Stop: 124548, Start Num: 1
Candidate Starts for Quaran19_270:
(Start: 1 @124712 has 52 MA's), (2, 124670), (3, 124658), (4, 124622), (5, 124610),

Gene: Quaran19_9 Start: 5530, Stop: 5366, Start Num: 1
Candidate Starts for Quaran19_9:
(Start: 1 @5530 has 52 MA's), (2, 5488), (3, 5476), (4, 5440), (5, 5428),

Gene: SaltySpitoon_9 Start: 5530, Stop: 5366, Start Num: 1
Candidate Starts for SaltySpitoon_9:
(Start: 1 @5530 has 52 MA's), (2, 5488), (3, 5476), (4, 5440), (5, 5428),

Gene: SaltySpitoon_269 Start: 123794, Stop: 123630, Start Num: 1
Candidate Starts for SaltySpitoon_269:
(Start: 1 @123794 has 52 MA's), (2, 123752), (3, 123740), (4, 123704), (5, 123692),

Gene: Sollertia_11 Start: 5892, Stop: 5728, Start Num: 1
Candidate Starts for Sollertia_11:
(Start: 1 @5892 has 52 MA's), (2, 5850), (4, 5802), (5, 5790),

Gene: Sollertia_267 Start: 124782, Stop: 124618, Start Num: 1
Candidate Starts for Sollertia_267:
(Start: 1 @124782 has 52 MA's), (2, 124740), (4, 124692), (5, 124680),

Gene: Spelly_9 Start: 5530, Stop: 5366, Start Num: 1
Candidate Starts for Spelly_9:
(Start: 1 @5530 has 52 MA's), (2, 5488), (3, 5476), (4, 5440), (5, 5428),

Gene: Spelly_275 Start: 124334, Stop: 124170, Start Num: 1
Candidate Starts for Spelly_275:
(Start: 1 @124334 has 52 MA's), (2, 124292), (3, 124280), (4, 124244), (5, 124232),

Gene: Spilled_276 Start: 125609, Stop: 125445, Start Num: 1
Candidate Starts for Spilled_276:
(Start: 1 @125609 has 52 MA's), (2, 125567), (3, 125555), (4, 125519), (5, 125507),

Gene: Spilled_8 Start: 5140, Stop: 4976, Start Num: 1
Candidate Starts for Spilled_8:
(Start: 1 @5140 has 52 MA's), (2, 5098), (3, 5086), (4, 5050), (5, 5038),

Gene: Stanimal_266 Start: 125166, Stop: 125002, Start Num: 1
Candidate Starts for Stanimal_266:
(Start: 1 @125166 has 52 MA's), (2, 125124), (4, 125076), (5, 125064),

Gene: Stanimal_11 Start: 5892, Stop: 5728, Start Num: 1
Candidate Starts for Stanimal_11:
(Start: 1 @5892 has 52 MA's), (2, 5850), (4, 5802), (5, 5790),

Gene: StarPlatinum_278 Start: 126955, Stop: 126791, Start Num: 1
Candidate Starts for StarPlatinum_278:
(Start: 1 @126955 has 52 MA's), (2, 126913), (3, 126901), (4, 126865), (5, 126853),

Gene: StarPlatinum_8 Start: 5268, Stop: 5104, Start Num: 1
Candidate Starts for StarPlatinum_8:
(Start: 1 @5268 has 52 MA's), (2, 5226), (3, 5214), (4, 5178), (5, 5166),

Gene: Starbow_9 Start: 5530, Stop: 5366, Start Num: 1
Candidate Starts for Starbow_9:
(Start: 1 @5530 has 52 MA's), (2, 5488), (3, 5476), (4, 5440), (5, 5428),

Gene: Starbow_266 Start: 124378, Stop: 124214, Start Num: 1
Candidate Starts for Starbow_266:
(Start: 1 @124378 has 52 MA's), (2, 124336), (3, 124324), (4, 124288), (5, 124276),

Gene: TomSawyer_9 Start: 5124, Stop: 4960, Start Num: 1
Candidate Starts for TomSawyer_9:
(Start: 1 @5124 has 52 MA's), (2, 5082), (3, 5070), (4, 5034), (5, 5022),

Gene: TomSawyer_274 Start: 126903, Stop: 126739, Start Num: 1
Candidate Starts for TomSawyer_274:
(Start: 1 @126903 has 52 MA's), (2, 126861), (3, 126849), (4, 126813), (5, 126801),

Gene: Tomas_11 Start: 6377, Stop: 6213, Start Num: 1

Candidate Starts for Tomas_11:
(Start: 1 @6377 has 52 MA's), (2, 6335), (4, 6287), (5, 6275),

Gene: Tomas_267 Start: 128084, Stop: 127920, Start Num: 1
Candidate Starts for Tomas_267:
(Start: 1 @128084 has 52 MA's), (2, 128042), (4, 127994), (5, 127982),

Gene: Wipeout_261 Start: 125876, Stop: 125712, Start Num: 1
Candidate Starts for Wipeout_261:
(Start: 1 @125876 has 52 MA's), (2, 125834), (3, 125822), (4, 125786), (5, 125774),

Gene: Wipeout_8 Start: 5145, Stop: 4981, Start Num: 1
Candidate Starts for Wipeout_8:
(Start: 1 @5145 has 52 MA's), (2, 5103), (3, 5091), (4, 5055), (5, 5043),

Gene: Wofford_10 Start: 5623, Stop: 5459, Start Num: 1
Candidate Starts for Wofford_10:
(Start: 1 @5623 has 52 MA's), (2, 5581), (3, 5569), (4, 5533), (5, 5521),

Gene: Wofford_268 Start: 127416, Stop: 127252, Start Num: 1
Candidate Starts for Wofford_268:
(Start: 1 @127416 has 52 MA's), (2, 127374), (3, 127362), (4, 127326), (5, 127314),

Gene: Yaboi_272 Start: 124710, Stop: 124546, Start Num: 1
Candidate Starts for Yaboi_272:
(Start: 1 @124710 has 52 MA's), (2, 124668), (4, 124620), (5, 124608),

Gene: Yaboi_11 Start: 5892, Stop: 5728, Start Num: 1
Candidate Starts for Yaboi_11:
(Start: 1 @5892 has 52 MA's), (2, 5850), (4, 5802), (5, 5790),