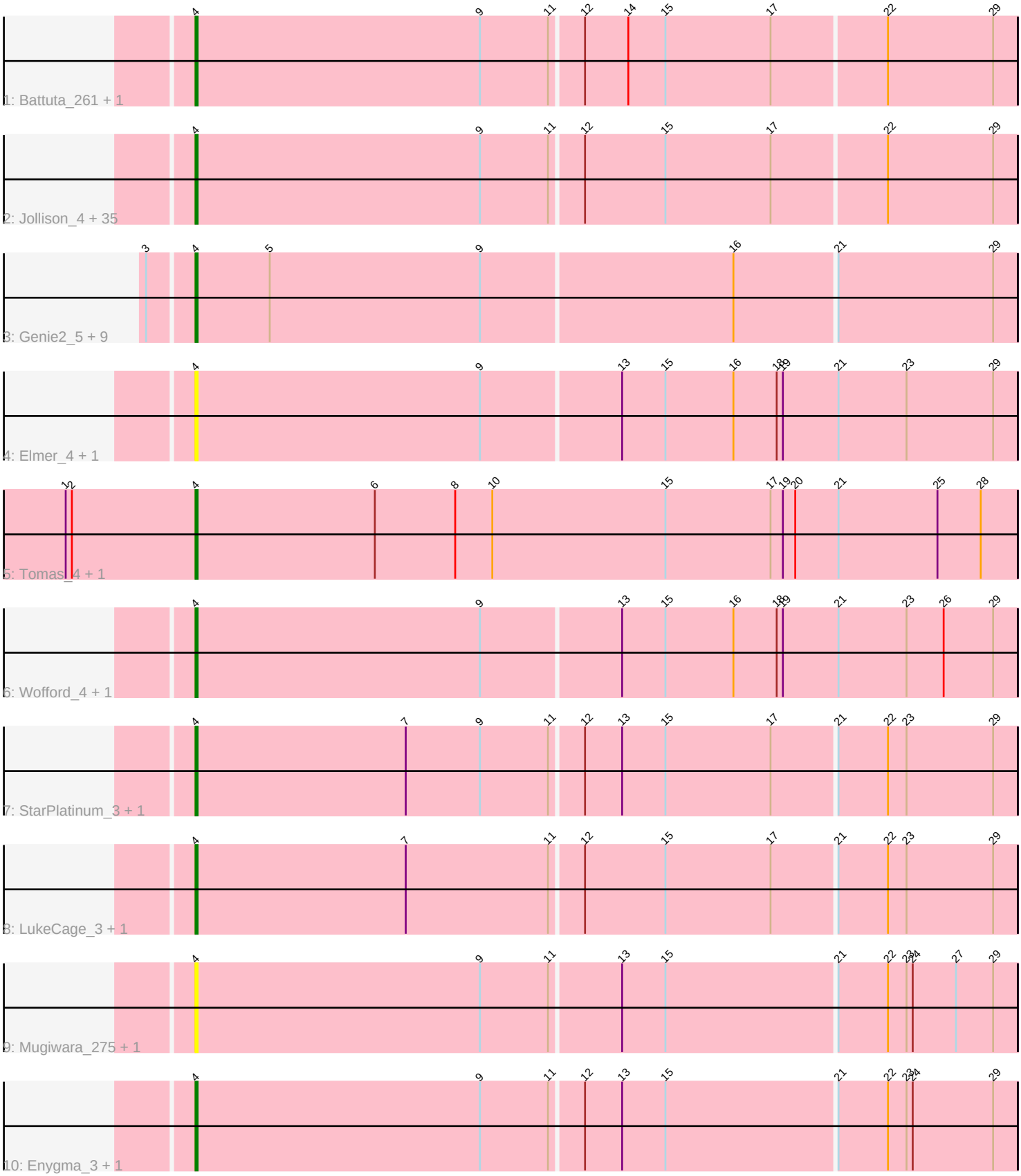
Pham 171463


1: Battuta_261 + 1
2: Jollison_4 + 35
3: Genie2_5 + 9
4: Elmer_4 + 1
5: Tomas_4 + 1
6: Wofford_4 + 1
7: StarPlatinum_3 + 1
8: LukeCage_3 + 1
9: Mugiwara_275 + 1
10: Enygma_3 + 1

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 171463 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171463 has 62 members, 12 are drafts.

Phages represented in each track:
• Track 1 : Battuta_261, Battuta_4
• Track 2 : Jollison_4, MindFlayer_3, Karimac_4, Quaran19_265, Spelly_270, Gibbi_3, CeilingFan_3, Gibbi_274, CeilingFan_277, Amabiko_268, Karimac_262, Bordeaux_261, KentuckyRacer_4, Amabiko_4, TomSawyer_4, SaltySpitoon_4, Quaran19_4, JimJam_272, JimJam_4, Spilled_271, Jollison_268, Spelly_4, SaltySpitoon_264, Spilled_3, Wipeout_3, Wipeout_256, PumpkinSpice_4, IchabodCrane_256, KentuckyRacer_278, Bordeaux_4, PumpkinSpice_268, Starbow_4, MindFlayer_255, IchabodCrane_3, Starbow_261, TomSawyer_269
• Track 3 : Genie2_5, Stanimal_260, Sollertia_261, Sollertia_5, Yaboi_5, Stanimal_5, Genie2_260, Yaboi_266, BoomerJR_260, BoomerJR_5
• Track 4 : Elmer_4, Elmer_280
• Track 5 : Tomas_4, Tomas_260
• Track 6 : Wofford_4, Wofford_262
• Track 7 : StarPlatinum_3, StarPlatinum_273
• Track 8 : LukeCage_3, LukeCage_266
• Track 9 : Mugiwara_275, Mugiwara_3
• Track 10 : Enygma_3, Enygma_271

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

The start number called the most often in the published annotations is 4, it was called in 50 of the 50 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Amabiko_268, Amabiko_4, Battuta_261, Battuta_4, BoomerJR_260, BoomerJR_5, Bordeaux_261, Bordeaux_4, CeilingFan_277, CeilingFan_3, Elmer_280, Elmer_4, Enygma_271, Enygma_3, Genie2_260, Genie2_5, Gibbi_274, Gibbi_3, IchabodCrane_256, IchabodCrane_3, JimJam_272, JimJam_4, Jollison_268, Jollison_4, Karimac_262, Karimac_4, KentuckyRacer_278, KentuckyRacer_4, LukeCage_266, LukeCage_3, MindFlayer_255, MindFlayer_3, Mugiwara_275, Mugiwara_3, PumpkinSpice_268, PumpkinSpice_4, Quaran19_265, Quaran19_4, SaltySpitoon_264, SaltySpitoon_4, Sollertia_261, Sollertia_5, Spelly_270, Spelly_4, Spilled_271, Spilled_3, Stanimal_260, Stanimal_5, StarPlatinum_273, StarPlatinum_3, Starbow_261, Starbow_4, TomSawyer_269, TomSawyer_4,

Tomas_260, Tomas_4, Wipeout_256, Wipeout_3, Wofford_262, Wofford_4, Yaboi_266, Yaboi_5,

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 4:
• Found in 62 of 62 (100.0%) of genes in pham
• Manual Annotations of this start: 50 of 50
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amabiko_268 (BE2), Amabiko_4 (BE2), Battuta_261 (BE2), Battuta_4 (BE2), BoomerJR_260 (BE2), BoomerJR_5 (BE2), Bordeaux_261 (BE2), Bordeaux_4 (BE2), CeilingFan_277 (BE2), CeilingFan_3 (BE2), Elmer_280 (BE2), Elmer_4 (BE2), Enygma_271 (BE2), Enygma_3 (BE2), Genie2_260 (BE2), Genie2_5 (BE2), Gibbi_274 (BE2), Gibbi_3 (BE2), IchabodCrane_256 (BE2), IchabodCrane_3 (BE2), JimJam_272 (BE2), JimJam_4 (BE2), Jollison_268 (BE2), Jollison_4 (BE2), Karimac_262 (BE2), Karimac_4 (BE2), KentuckyRacer_278 (BE2), KentuckyRacer_4 (BE2), LukeCage_266 (BE2), LukeCage_3 (BE2), MindFlayer_255 (BE2), MindFlayer_3 (BE2), Mugiwara_275 (BE2), Mugiwara_3 (BE2), PumpkinSpice_268 (BE2), PumpkinSpice_4 (BE2), Quaran19_265 (BE2), Quaran19_4 (BE2), SaltySpitoon_264 (BE2), SaltySpitoon_4 (BE2), Sollertia_261 (BE2), Sollertia_5 (BE2), Spelly_270 (BE2), Spelly_4 (BE2), Spilled_271 (BE2), Spilled_3 (BE2), Stanimal_260 (BE2), Stanimal_5 (BE2), StarPlatinum_273 (BE2), StarPlatinum_3 (BE2), Starbow_261 (BE2), Starbow_4 (BE2), TomSawyer_269 (BE2), TomSawyer_4 (BE2), Tomas_260 (BE2), Tomas_4 (BE2), Wipeout_256 (BE2), Wipeout_3 (BE2), Wofford_262 (BE2), Wofford_4 (BE2), Yaboi_266 (BE2), Yaboi_5 (BE2),

Summary by clusters:

There is one cluster represented in this pham: BE2

Info for manual annotations of cluster BE2:
•Start number 4 was manually annotated 50 times for cluster BE2.

Gene Information:

Gene: Amabiko_268 Start: 122065, Stop: 121673, Start Num: 4
Candidate Starts for Amabiko_268:
(Start: 4 @122065 has 50 MA's), (9, 121927), (11, 121894), (12, 121879), (15, 121840), (17, 121789), (22, 121735), (29, 121684),

Gene: Amabiko_4 Start: 3239, Stop: 2847, Start Num: 4
Candidate Starts for Amabiko_4:
(Start: 4 @3239 has 50 MA's), (9, 3101), (11, 3068), (12, 3053), (15, 3014), (17, 2963), (22, 2909), (29, 2858),

Gene: Battuta_261 Start: 121394, Stop: 121002, Start Num: 4
Candidate Starts for Battuta_261:
(Start: 4 @121394 has 50 MA's), (9, 121256), (11, 121223), (12, 121208), (14, 121187), (15, 121169), (17, 121118), (22, 121064), (29, 121013),

Gene: Battuta_4 Start: 3239, Stop: 2847, Start Num: 4
Candidate Starts for Battuta_4:
(Start: 4 @3239 has 50 MA's), (9, 3101), (11, 3068), (12, 3053), (14, 3032), (15, 3014), (17, 2963), (22, 2909), (29, 2858),

Gene: BoomerJR_260 Start: 122007, Stop: 121615, Start Num: 4
Candidate Starts for BoomerJR_260:
(3, 122028), (Start: 4 @122007 has 50 MA's), (5, 121971), (9, 121869), (16, 121749), (21, 121701), (29, 121626),

Gene: BoomerJR_5 Start: 3219, Stop: 2827, Start Num: 4
Candidate Starts for BoomerJR_5:
(3, 3240), (Start: 4 @3219 has 50 MA's), (5, 3183), (9, 3081), (16, 2961), (21, 2913), (29, 2838),

Gene: Bordeaux_261 Start: 121977, Stop: 121585, Start Num: 4
Candidate Starts for Bordeaux_261:
(Start: 4 @121977 has 50 MA's), (9, 121839), (11, 121806), (12, 121791), (15, 121752), (17, 121701), (22, 121647), (29, 121596),

Gene: Bordeaux_4 Start: 3239, Stop: 2847, Start Num: 4
Candidate Starts for Bordeaux_4:
(Start: 4 @3239 has 50 MA's), (9, 3101), (11, 3068), (12, 3053), (15, 3014), (17, 2963), (22, 2909), (29, 2858),

Gene: CeilingFan_3 Start: 2850, Stop: 2458, Start Num: 4
Candidate Starts for CeilingFan_3:
(Start: 4 @2850 has 50 MA's), (9, 2712), (11, 2679), (12, 2664), (15, 2625), (17, 2574), (22, 2520), (29, 2469),

Gene: CeilingFan_277 Start: 123457, Stop: 123065, Start Num: 4
Candidate Starts for CeilingFan_277:
(Start: 4 @123457 has 50 MA's), (9, 123319), (11, 123286), (12, 123271), (15, 123232), (17, 123181), (22, 123127), (29, 123076),

Gene: Elmer_4 Start: 3119, Stop: 2724, Start Num: 4
Candidate Starts for Elmer_4:
(Start: 4 @3119 has 50 MA's), (9, 2981), (13, 2915), (15, 2894), (16, 2861), (18, 2840), (19, 2837), (21, 2810), (23, 2777), (29, 2735),

Gene: Elmer_280 Start: 125487, Stop: 125092, Start Num: 4
Candidate Starts for Elmer_280:
(Start: 4 @125487 has 50 MA's), (9, 125349), (13, 125283), (15, 125262), (16, 125229), (18, 125208), (19, 125205), (21, 125178), (23, 125145), (29, 125103),

Gene: Enygma_3 Start: 2800, Stop: 2408, Start Num: 4
Candidate Starts for Enygma_3:

(Start: 4 @2800 has 50 MA's), (9, 2662), (11, 2629), (12, 2614), (13, 2596), (15, 2575), (21, 2494), (22, 2470), (23, 2461), (24, 2458), (29, 2419),

Gene: Enygma_271 Start: 125224, Stop: 124832, Start Num: 4
Candidate Starts for Enygma_271:
(Start: 4 @125224 has 50 MA's), (9, 125086), (11, 125053), (12, 125038), (13, 125020), (15, 124999), (21, 124918), (22, 124894), (23, 124885), (24, 124882), (29, 124843),

Gene: Genie2_5 Start: 3219, Stop: 2827, Start Num: 4
Candidate Starts for Genie2_5:
(3, 3240), (Start: 4 @3219 has 50 MA's), (5, 3183), (9, 3081), (16, 2961), (21, 2913), (29, 2838),

Gene: Genie2_260 Start: 122120, Stop: 121728, Start Num: 4
Candidate Starts for Genie2_260:
(3, 122141), (Start: 4 @122120 has 50 MA's), (5, 122084), (9, 121982), (16, 121862), (21, 121814), (29, 121739),

Gene: Gibbi_3 Start: 2850, Stop: 2458, Start Num: 4
Candidate Starts for Gibbi_3:
(Start: 4 @2850 has 50 MA's), (9, 2712), (11, 2679), (12, 2664), (15, 2625), (17, 2574), (22, 2520), (29, 2469),

Gene: Gibbi_274 Start: 122950, Stop: 122558, Start Num: 4
Candidate Starts for Gibbi_274:
(Start: 4 @122950 has 50 MA's), (9, 122812), (11, 122779), (12, 122764), (15, 122725), (17, 122674), (22, 122620), (29, 122569),

Gene: IchabodCrane_256 Start: 121390, Stop: 120998, Start Num: 4
Candidate Starts for IchabodCrane_256:
(Start: 4 @121390 has 50 MA's), (9, 121252), (11, 121219), (12, 121204), (15, 121165), (17, 121114), (22, 121060), (29, 121009),

Gene: IchabodCrane_3 Start: 2847, Stop: 2455, Start Num: 4
Candidate Starts for IchabodCrane_3:
(Start: 4 @2847 has 50 MA's), (9, 2709), (11, 2676), (12, 2661), (15, 2622), (17, 2571), (22, 2517), (29, 2466),

Gene: JimJam_272 Start: 124775, Stop: 124383, Start Num: 4
Candidate Starts for JimJam_272:
(Start: 4 @124775 has 50 MA's), (9, 124637), (11, 124604), (12, 124589), (15, 124550), (17, 124499), (22, 124445), (29, 124394),

Gene: JimJam_4 Start: 3239, Stop: 2847, Start Num: 4
Candidate Starts for JimJam_4:
(Start: 4 @3239 has 50 MA's), (9, 3101), (11, 3068), (12, 3053), (15, 3014), (17, 2963), (22, 2909), (29, 2858),

Gene: Jollison_4 Start: 3239, Stop: 2847, Start Num: 4
Candidate Starts for Jollison_4:
(Start: 4 @3239 has 50 MA's), (9, 3101), (11, 3068), (12, 3053), (15, 3014), (17, 2963), (22, 2909), (29, 2858),

Gene: Jollison_268 Start: 121914, Stop: 121522, Start Num: 4

Candidate Starts for Jollison_268:
(Start: 4 @121914 has 50 MA's), (9, 121776), (11, 121743), (12, 121728), (15, 121689), (17, 121638), (22, 121584), (29, 121533),

Gene: Karimac_4 Start: 3241, Stop: 2849, Start Num: 4
Candidate Starts for Karimac_4:
(Start: 4 @3241 has 50 MA's), (9, 3103), (11, 3070), (12, 3055), (15, 3016), (17, 2965), (22, 2911), (29, 2860),

Gene: Karimac_262 Start: 122560, Stop: 122168, Start Num: 4
Candidate Starts for Karimac_262:
(Start: 4 @122560 has 50 MA's), (9, 122422), (11, 122389), (12, 122374), (15, 122335), (17, 122284), (22, 122230), (29, 122179),

Gene: KentuckyRacer_4 Start: 2851, Stop: 2459, Start Num: 4
Candidate Starts for KentuckyRacer_4:
(Start: 4 @2851 has 50 MA's), (9, 2713), (11, 2680), (12, 2665), (15, 2626), (17, 2575), (22, 2521), (29, 2470),

Gene: KentuckyRacer_278 Start: 124302, Stop: 123910, Start Num: 4
Candidate Starts for KentuckyRacer_278:
(Start: 4 @124302 has 50 MA's), (9, 124164), (11, 124131), (12, 124116), (15, 124077), (17, 124026), (22, 123972), (29, 123921),

Gene: LukeCage_3 Start: 2842, Stop: 2450, Start Num: 4
Candidate Starts for LukeCage_3:
(Start: 4 @2842 has 50 MA's), (7, 2740), (11, 2671), (12, 2656), (15, 2617), (17, 2566), (21, 2536), (22, 2512), (23, 2503), (29, 2461),

Gene: LukeCage_266 Start: 123746, Stop: 123354, Start Num: 4
Candidate Starts for LukeCage_266:
(Start: 4 @123746 has 50 MA's), (7, 123644), (11, 123575), (12, 123560), (15, 123521), (17, 123470), (21, 123440), (22, 123416), (23, 123407), (29, 123365),

Gene: MindFlayer_3 Start: 2849, Stop: 2457, Start Num: 4
Candidate Starts for MindFlayer_3:
(Start: 4 @2849 has 50 MA's), (9, 2711), (11, 2678), (12, 2663), (15, 2624), (17, 2573), (22, 2519), (29, 2468),

Gene: MindFlayer_255 Start: 120909, Stop: 120517, Start Num: 4
Candidate Starts for MindFlayer_255:
(Start: 4 @120909 has 50 MA's), (9, 120771), (11, 120738), (12, 120723), (15, 120684), (17, 120633), (22, 120579), (29, 120528),

Gene: Mugiwara_275 Start: 124214, Stop: 123822, Start Num: 4
Candidate Starts for Mugiwara_275:
(Start: 4 @124214 has 50 MA's), (9, 124076), (11, 124043), (13, 124010), (15, 123989), (21, 123908), (22, 123884), (23, 123875), (24, 123872), (27, 123851), (29, 123833),

Gene: Mugiwara_3 Start: 2829, Stop: 2437, Start Num: 4
Candidate Starts for Mugiwara_3:
(Start: 4 @2829 has 50 MA's), (9, 2691), (11, 2658), (13, 2625), (15, 2604), (21, 2523), (22, 2499), (23, 2490), (24, 2487), (27, 2466), (29, 2448),

Gene: PumpkinSpice_4 Start: 3239, Stop: 2847, Start Num: 4
Candidate Starts for PumpkinSpice_4:
(Start: 4 @3239 has 50 MA's), (9, 3101), (11, 3068), (12, 3053), (15, 3014), (17, 2963), (22, 2909), (29, 2858),

Gene: PumpkinSpice_268 Start: 123131, Stop: 122739, Start Num: 4
Candidate Starts for PumpkinSpice_268:
(Start: 4 @123131 has 50 MA's), (9, 122993), (11, 122960), (12, 122945), (15, 122906), (17, 122855), (22, 122801), (29, 122750),

Gene: Quaran19_265 Start: 122421, Stop: 122029, Start Num: 4
Candidate Starts for Quaran19_265:
(Start: 4 @122421 has 50 MA's), (9, 122283), (11, 122250), (12, 122235), (15, 122196), (17, 122145), (22, 122091), (29, 122040),

Gene: Quaran19_4 Start: 3239, Stop: 2847, Start Num: 4
Candidate Starts for Quaran19_4:
(Start: 4 @3239 has 50 MA's), (9, 3101), (11, 3068), (12, 3053), (15, 3014), (17, 2963), (22, 2909), (29, 2858),

Gene: SaltySpitoon_4 Start: 3239, Stop: 2847, Start Num: 4
Candidate Starts for SaltySpitoon_4:
(Start: 4 @3239 has 50 MA's), (9, 3101), (11, 3068), (12, 3053), (15, 3014), (17, 2963), (22, 2909), (29, 2858),

Gene: SaltySpitoon_264 Start: 121503, Stop: 121111, Start Num: 4
Candidate Starts for SaltySpitoon_264:
(Start: 4 @121503 has 50 MA's), (9, 121365), (11, 121332), (12, 121317), (15, 121278), (17, 121227), (22, 121173), (29, 121122),

Gene: Sollertia_261 Start: 122109, Stop: 121717, Start Num: 4
Candidate Starts for Sollertia_261:
(3, 122130), (Start: 4 @122109 has 50 MA's), (5, 122073), (9, 121971), (16, 121851), (21, 121803), (29, 121728),

Gene: Sollertia_5 Start: 3219, Stop: 2827, Start Num: 4
Candidate Starts for Sollertia_5:
(3, 3240), (Start: 4 @3219 has 50 MA's), (5, 3183), (9, 3081), (16, 2961), (21, 2913), (29, 2838),

Gene: Spelly_270 Start: 122043, Stop: 121651, Start Num: 4
Candidate Starts for Spelly_270:
(Start: 4 @122043 has 50 MA's), (9, 121905), (11, 121872), (12, 121857), (15, 121818), (17, 121767), (22, 121713), (29, 121662),

Gene: Spelly_4 Start: 3239, Stop: 2847, Start Num: 4
Candidate Starts for Spelly_4:
(Start: 4 @3239 has 50 MA's), (9, 3101), (11, 3068), (12, 3053), (15, 3014), (17, 2963), (22, 2909), (29, 2858),

Gene: Spilled_271 Start: 123318, Stop: 122926, Start Num: 4
Candidate Starts for Spilled_271:

(Start: 4 @123318 has 50 MA's), (9, 123180), (11, 123147), (12, 123132), (15, 123093), (17, 123042), (22, 122988), (29, 122937),

Gene: Spilled_3 Start: 2849, Stop: 2457, Start Num: 4
Candidate Starts for Spilled_3:
(Start: 4 @2849 has 50 MA's), (9, 2711), (11, 2678), (12, 2663), (15, 2624), (17, 2573), (22, 2519), (29, 2468),

Gene: Stanimal_260 Start: 122493, Stop: 122101, Start Num: 4
Candidate Starts for Stanimal_260:
(3, 122514), (Start: 4 @122493 has 50 MA's), (5, 122457), (9, 122355), (16, 122235), (21, 122187), (29, 122112),

Gene: Stanimal_5 Start: 3219, Stop: 2827, Start Num: 4
Candidate Starts for Stanimal_5:
(3, 3240), (Start: 4 @3219 has 50 MA's), (5, 3183), (9, 3081), (16, 2961), (21, 2913), (29, 2838),

Gene: StarPlatinum_3 Start: 2983, Stop: 2591, Start Num: 4
Candidate Starts for StarPlatinum_3:
(Start: 4 @2983 has 50 MA's), (7, 2881), (9, 2845), (11, 2812), (12, 2797), (13, 2779), (15, 2758), (17, 2707), (21, 2677), (22, 2653), (23, 2644), (29, 2602),

Gene: StarPlatinum_273 Start: 124670, Stop: 124278, Start Num: 4
Candidate Starts for StarPlatinum_273:
(Start: 4 @124670 has 50 MA's), (7, 124568), (9, 124532), (11, 124499), (12, 124484), (13, 124466), (15, 124445), (17, 124394), (21, 124364), (22, 124340), (23, 124331), (29, 124289),

Gene: Starbow_4 Start: 3239, Stop: 2847, Start Num: 4
Candidate Starts for Starbow_4:
(Start: 4 @3239 has 50 MA's), (9, 3101), (11, 3068), (12, 3053), (15, 3014), (17, 2963), (22, 2909), (29, 2858),

Gene: Starbow_261 Start: 122087, Stop: 121695, Start Num: 4
Candidate Starts for Starbow_261:
(Start: 4 @122087 has 50 MA's), (9, 121949), (11, 121916), (12, 121901), (15, 121862), (17, 121811), (22, 121757), (29, 121706),

Gene: TomSawyer_4 Start: 2833, Stop: 2441, Start Num: 4
Candidate Starts for TomSawyer_4:
(Start: 4 @2833 has 50 MA's), (9, 2695), (11, 2662), (12, 2647), (15, 2608), (17, 2557), (22, 2503), (29, 2452),

Gene: TomSawyer_269 Start: 124612, Stop: 124220, Start Num: 4
Candidate Starts for TomSawyer_269:
(Start: 4 @124612 has 50 MA's), (9, 124474), (11, 124441), (12, 124426), (15, 124387), (17, 124336), (22, 124282), (29, 124231),

Gene: Tomas_4 Start: 3256, Stop: 2858, Start Num: 4
Candidate Starts for Tomas_4:
(1, 3319), (2, 3316), (Start: 4 @3256 has 50 MA's), (6, 3169), (8, 3130), (10, 3112), (15, 3028), (17, 2977), (19, 2971), (20, 2965), (21, 2944), (25, 2896), (28, 2875),

Gene: Tomas_260 Start: 124963, Stop: 124565, Start Num: 4

Candidate Starts for Tomas_260:
(1, 125026), (2, 125023), (Start: 4 @124963 has 50 MA's), (6, 124876), (8, 124837), (10, 124819), (15, 124735), (17, 124684), (19, 124678), (20, 124672), (21, 124651), (25, 124603), (28, 124582),

Gene: Wipeout_3 Start: 2854, Stop: 2462, Start Num: 4
Candidate Starts for Wipeout_3:
(Start: 4 @2854 has 50 MA's), (9, 2716), (11, 2683), (12, 2668), (15, 2629), (17, 2578), (22, 2524), (29, 2473),

Gene: Wipeout_256 Start: 123585, Stop: 123193, Start Num: 4
Candidate Starts for Wipeout_256:
(Start: 4 @123585 has 50 MA's), (9, 123447), (11, 123414), (12, 123399), (15, 123360), (17, 123309), (22, 123255), (29, 123204),

Gene: Wofford_4 Start: 3125, Stop: 2730, Start Num: 4
Candidate Starts for Wofford_4:
(Start: 4 @3125 has 50 MA's), (9, 2987), (13, 2921), (15, 2900), (16, 2867), (18, 2846), (19, 2843), (21, 2816), (23, 2783), (26, 2765), (29, 2741),

Gene: Wofford_262 Start: 124918, Stop: 124523, Start Num: 4
Candidate Starts for Wofford_262:
(Start: 4 @124918 has 50 MA's), (9, 124780), (13, 124714), (15, 124693), (16, 124660), (18, 124639), (19, 124636), (21, 124609), (23, 124576), (26, 124558), (29, 124534),

Gene: Yaboi_5 Start: 3219, Stop: 2827, Start Num: 4
Candidate Starts for Yaboi_5:
(3, 3240), (Start: 4 @3219 has 50 MA's), (5, 3183), (9, 3081), (16, 2961), (21, 2913), (29, 2838),

Gene: Yaboi_266 Start: 122037, Stop: 121645, Start Num: 4
Candidate Starts for Yaboi_266:
(3, 122058), (Start: 4 @122037 has 50 MA's), (5, 122001), (9, 121899), (16, 121779), (21, 121731), (29, 121656),