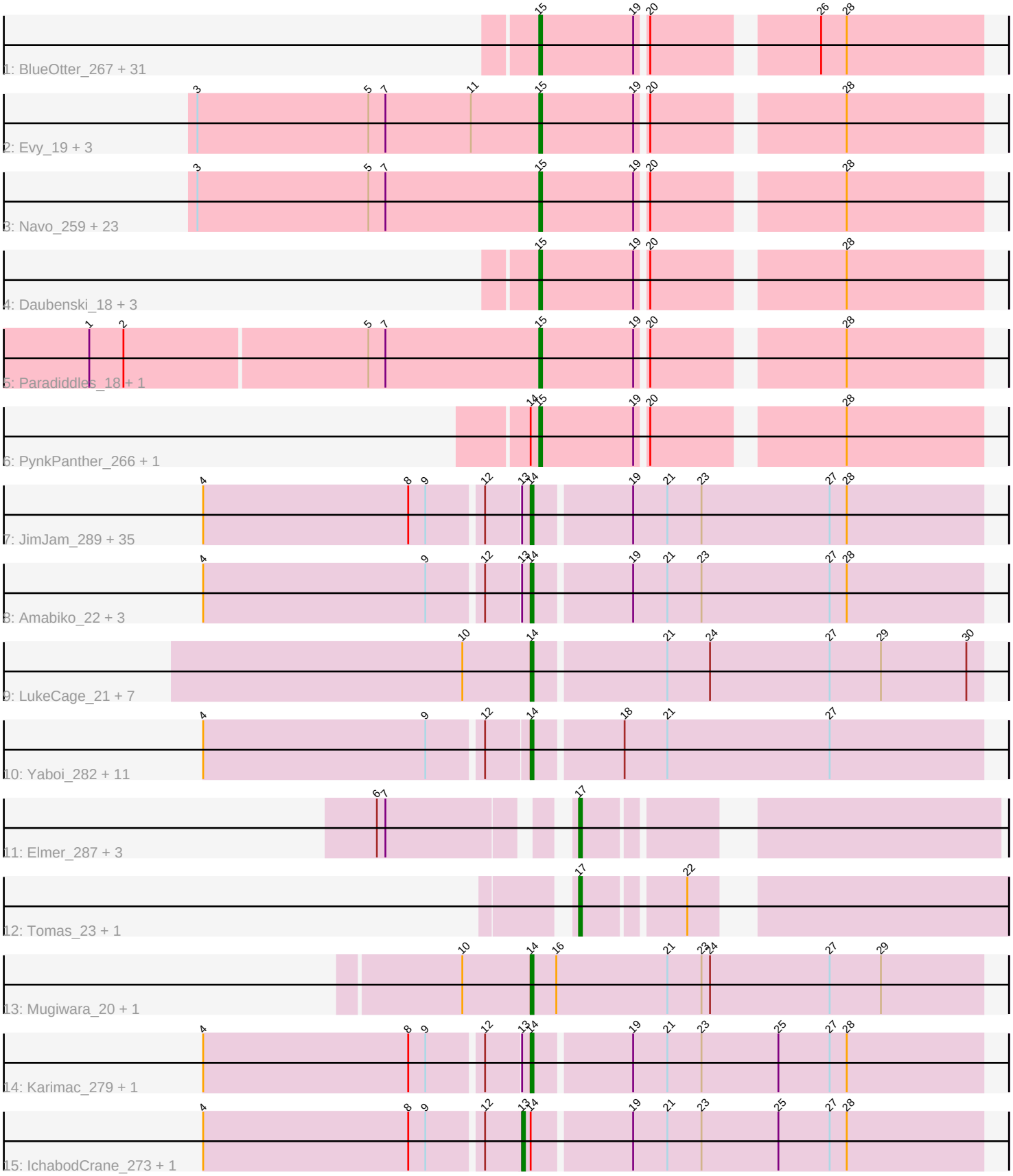
Pham 343745


1: BlueOtter_267 + 31
2: Evy_19 + 3
3: Navo_259 + 23
4: Daubenski_18 + 3
5: Paradiddles_18 + 1
6: PynkPanther_266 + 1
7: JimJam_289 + 35
8: Amabiko_22 + 3
9: LukeCage_21 + 7
10: Yaboi_282 + 11
11: Elmer_287 + 3
12: Tomas_23 + 1
13: Mugiwara_20 + 1
14: Karimac_279 + 1
15: IchabodCrane_273 + 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 343745 Report

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

Pham number 343745 has 140 members, 8 are drafts.

Phages represented in each track:
• Track 1 : BlueOtter_267, Leo04_270, ArianaSWT_272, Watermoore_266, Cross_267, Coogler_265, Peebs_266, Larnav_269, Pepperwood_20, Scheme_20, ArianaSWT_19, Cursive_17, Larnav_19, Coogler_19, Pepperwood_269, Sushi23_20, Cursive_271, HangryHippo_19, PacManQ_18, Leo04_19, HangryHippo_267, WashU_20, Peebs_19, Sushi23_270, Watermoore_19, PacManQ_265, Lululemon_265, Cross_19, Scheme_273, Lululemon_18, WashU_264, BlueOtter_19
• Track 2 : Evy_19, Evy_257, Targaryen_268, Targaryen_17
• Track 3 : Navo_259, Bartholomune_18, Bartholomune_268, FreddyDRoo_18, Braelyn_18, FreddyDRoo_268, PinkiePie_18, Squillium_270, Braelyn_263, Liandry_267, Davielle_266, WhereRU_17, Liandry_18, WhereRU_266, PinkiePie_268, Navo_17, NootNoot_263, Eliot67_269, Squillium_18, NootNoot_18, Eliot67_18, Persimmon_268, Davielle_17, Persimmon_17
• Track 4 : Daubenski_18, Daubenski_262, Cadmus_265, Cadmus_17
• Track 5 : Paradiddles_18, Paradiddles_259
• Track 6 : PynkPanther_266, PynkPanther_18
• Track 7 : JimJam_289, Birchlyn_18, JimJam_21, AcciDwight_294, Brizzy_20, PumpkinSpice_21, Wipeout_274, Battuta_278, Daisy123_283, Spelly_287, Jollison_22, Wipeout_20, Quaran19_282, Jollison_279, Quaran19_21, Birchlyn_278, SaltySpitoon_21, TomSawyer_286, SaltySpitoon_281, Starbow_21, AcciDwight_24, Daisy123_20, Bordeaux_21, Tuesday_23, Battuta_21, Starbow_278, Spilled_20, Brizzy_278, Gibbi_294, Spelly_21, Bordeaux_278, PumpkinSpice_285, Tuesday_291, Spilled_288, TomSawyer_21, Gibbi_23
• Track 8 : Amabiko_22, MindFlayer_272, MindFlayer_20, Amabiko_286
• Track 9 : LukeCage_21, CeilingFan_287, KentuckyRacer_21, CeilingFan_21, KentuckyRacer_289, LukeCage_284, Rikishi_284, Rikishi_23
• Track 10 : Yaboi_282, BoomerJR_277, Yaboi_21, Stanimal_277, BoomerJR_22, AngryGiraffe_278, Sollertia_278, AngryGiraffe_22, Stanimal_22, Sollertia_22, Genie2_22, Genie2_277
• Track 11 : Elmer_287, Elmer_20, Wofford_278, Wofford_20
• Track 12 : Tomas_23, Tomas_279
• Track 13 : Mugiwara_20, Mugiwara_287
• Track 14 : Karimac_279, Karimac_21
• Track 15 : IchabodCrane_273, IchabodCrane_20

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

The start number called the most often in the published annotations is 15, it was called in 66 of the 132 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ArianaSWT_19, ArianaSWT_272, Bartholomune_18, Bartholomune_268, BlueOtter_19, BlueOtter_267, Braelyn_18, Braelyn_263, Cadmus_17, Cadmus_265, Coogler_19, Coogler_265, Cross_19, Cross_267, Cursive_17, Cursive_271, Daubenski_18, Daubenski_262, Davielle_17, Davielle_266, Eliot67_18, Eliot67_269, Evy_19, Evy_257, FreddyDRoo_18, FreddyDRoo_268, HangryHippo_19, HangryHippo_267, Larnav_19, Larnav_269, Leo04_19, Leo04_270, Liandry_18, Liandry_267, Lululemon_18, Lululemon_265, Navo_17, Navo_259, NootNoot_18, NootNoot_263, PacManQ_18, PacManQ_265, Paradiddles_18, Paradiddles_259, Peebs_19, Peebs_266, Pepperwood_20, Pepperwood_269, Persimmon_17, Persimmon_268, PinkiePie_18, PinkiePie_268, PynkPanther_18, PynkPanther_266, Scheme_20, Scheme_273, Squillium_18, Squillium_270, Sushi23_20, Sushi23_270, Targaryen_17, Targaryen_268, WashU_20, WashU_264, Watermoore_19, Watermoore_266, WhereRU_17, WhereRU_266,

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

Genes that do not have the "Most Annotated" start:
• AcciDwight_24, AcciDwight_294, Amabiko_22, Amabiko_286, AngryGiraffe_22, AngryGiraffe_278, Battuta_21, Battuta_278, Birchlyn_18, Birchlyn_278, BoomerJR_22, BoomerJR_277, Bordeaux_21, Bordeaux_278, Brizzy_20, Brizzy_278, CeilingFan_21, CeilingFan_287, Daisy123_20, Daisy123_283, Elmer_20, Elmer_287, Genie2_22, Genie2_277, Gibbi_23, Gibbi_294, IchabodCrane_20, IchabodCrane_273, JimJam_21, JimJam_289, Jollison_22, Jollison_279, Karimac_21, Karimac_279, KentuckyRacer_21, KentuckyRacer_289, LukeCage_21, LukeCage_284, MindFlayer_20, MindFlayer_272, Mugiwara_20, Mugiwara_287, PumpkinSpice_21, PumpkinSpice_285, Quaran19_21, Quaran19_282, Rikishi_23, Rikishi_284, SaltySpitoon_21, SaltySpitoon_281, Sollertia_22, Sollertia_278, Spelly_21, Spelly_287, Spilled_20, Spilled_288, Stanimal_22, Stanimal_277, Starbow_21, Starbow_278, TomSawyer_21, TomSawyer_286, Tomas_23, Tomas_279, Tuesday_23, Tuesday_291, Wipeout_20, Wipeout_274, Wofford_20, Wofford_278, Yaboi_21, Yaboi_282,

Summary by start number:

Start 13:
• Found in 44 of 140 (31.4%) of genes in pham
• Manual Annotations of this start: 2 of 132
• Called 4.5% of time when present
• Phage (with cluster) where this start called: IchabodCrane_20 (BE2), IchabodCrane_273 (BE2),

Start 14:
• Found in 68 of 140 (48.6%) of genes in pham
• Manual Annotations of this start: 58 of 132
• Called 94.1% of time when present
• Phage (with cluster) where this start called: AcciDwight_24 (BE2), AcciDwight_294 (BE2), Amabiko_22 (BE2), Amabiko_286 (BE2), AngryGiraffe_22 (BE2),

AngryGiraffe_278 (BE2), Battuta_21 (BE2), Battuta_278 (BE2), Birchlyn_18 (BE2), Birchlyn_278 (BE2), BoomerJR_22 (BE2), BoomerJR_277 (BE2), Bordeaux_21 (BE2), Bordeaux_278 (BE2), Brizzy_20 (BE2), Brizzy_278 (BE2), CeilingFan_21 (BE2), CeilingFan_287 (BE2), Daisy123_20 (BE2), Daisy123_283 (BE2), Genie2_22 (BE2), Genie2_277 (BE2), Gibbi_23 (BE2), Gibbi_294 (BE2), JimJam_21 (BE2), JimJam_289 (BE2), Jollison_22 (BE2), Jollison_279 (BE2), Karimac_21 (BE2), Karimac_279 (BE2), KentuckyRacer_21 (BE2), KentuckyRacer_289 (BE2), LukeCage_21 (BE2), LukeCage_284 (BE2), MindFlayer_20 (BE2), MindFlayer_272 (BE2), Mugiwara_20 (BE2), Mugiwara_287 (BE2), PumpkinSpice_21 (BE2), PumpkinSpice_285 (BE2), Quaran19_21 (BE2), Quaran19_282 (BE2), Rikishi_23 (BE2), Rikishi_284 (BE2), SaltySpitoon_21 (BE2), SaltySpitoon_281 (BE2), Sollertia_22 (BE2), Sollertia_278 (BE2), Spelly_21 (BE2), Spelly_287 (BE2), Spilled_20 (BE2), Spilled_288 (BE2), Stanimal_22 (BE2), Stanimal_277 (BE2), Starbow_21 (BE2), Starbow_278 (BE2), TomSawyer_21 (BE2), TomSawyer_286 (BE2), Tuesday_23 (BE2), Tuesday_291 (BE2), Wipeout_20 (BE2), Wipeout_274 (BE2), Yaboi_21 (BE2), Yaboi_282 (BE2),

Start 15:
• Found in 68 of 140 (48.6%) of genes in pham
• Manual Annotations of this start: 66 of 132
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ArianaSWT_19 (BE1), ArianaSWT_272 (BE1), Bartholomune_18 (BE1), Bartholomune_268 (BE1), BlueOtter_19 (BE1), BlueOtter_267 (BE1), Braelyn_18 (BE1), Braelyn_263 (BE1), Cadmus_17 (BE1), Cadmus_265 (BE1), Coogler_19 (BE1), Coogler_265 (BE1), Cross_19 (BE1), Cross_267 (BE1), Cursive_17 (BE1), Cursive_271 (BE1), Daubenski_18 (BE1), Daubenski_262 (BE1), Davielle_17 (BE1), Davielle_266 (BE1), Eliot67_18 (BE1), Eliot67_269 (BE1), Evy_19 (BE1), Evy_257 (BE1), FreddyDRoo_18 (BE1), FreddyDRoo_268 (BE1), HangryHippo_19 (BE1), HangryHippo_267 (BE1), Larnav_19 (BE1), Larnav_269 (BE1), Leo04_19 (BE1), Leo04_270 (BE1), Liandry_18 (BE1), Liandry_267 (BE1), Lululemon_18 (BE1), Lululemon_265 (BE1), Navo_17 (BE1), Navo_259 (BE1), NootNoot_18 (BE1), NootNoot_263 (BE1), PacManQ_18 (BE1), PacManQ_265 (BE1), Paradiddles_18 (BE1), Paradiddles_259 (BE1), Peebs_19 (BE1), Peebs_266 (BE1), Pepperwood_20 (BE1), Pepperwood_269 (BE1), Persimmon_17 (BE1), Persimmon_268 (BE1), PinkiePie_18 (BE1), PinkiePie_268 (BE1), PynkPanther_18 (BE1), PynkPanther_266 (BE1), Scheme_20 (BE1), Scheme_273 (BE1), Squillium_18 (BE1), Squillium_270 (BE1), Sushi23_20 (BE1), Sushi23_270 (BE1), Targaryen_17 (BE1), Targaryen_268 (BE1), WashU_20 (BE1), WashU_264 (BE1), Watermoore_19 (BE1), Watermoore_266 (BE1), WhereRU_17 (BE1), WhereRU_266 (BE1),

Start 17:
• Found in 6 of 140 (4.3%) of genes in pham
• Manual Annotations of this start: 6 of 132
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Elmer_20 (BE2), Elmer_287 (BE2), Tomas_23 (BE2), Tomas_279 (BE2), Wofford_20 (BE2), Wofford_278 (BE2),

Summary by clusters:

There are 2 clusters represented in this pham: BE2, BE1,

Info for manual annotations of cluster BE1:

•Start number 15 was manually annotated 66 times for cluster BE1.

Info for manual annotations of cluster BE2:
•Start number 13 was manually annotated 2 times for cluster BE2.
•Start number 14 was manually annotated 58 times for cluster BE2.
•Start number 17 was manually annotated 6 times for cluster BE2.

Gene Information:

Gene: AcciDwight_294 Start: 130359, Stop: 130204, Start Num: 14
Candidate Starts for AcciDwight_294:
(4, 130470), (8, 130398), (9, 130392), (12, 130374), (Start: 13 @130362 has 2 MA's), (Start: 14 @130359 has 58 MA's), (19, 130326), (21, 130314), (23, 130302), (27, 130257), (28, 130251),

Gene: AcciDwight_24 Start: 10263, Stop: 10108, Start Num: 14
Candidate Starts for AcciDwight_24:
(4, 10374), (8, 10302), (9, 10296), (12, 10278), (Start: 13 @10266 has 2 MA's), (Start: 14 @10263 has 58 MA's), (19, 10230), (21, 10218), (23, 10206), (27, 10161), (28, 10155),

Gene: Amabiko_22 Start: 10263, Stop: 10108, Start Num: 14
Candidate Starts for Amabiko_22:
(4, 10374), (9, 10296), (12, 10278), (Start: 13 @10266 has 2 MA's), (Start: 14 @10263 has 58 MA's), (19, 10230), (21, 10218), (23, 10206), (27, 10161), (28, 10155),

Gene: Amabiko_286 Start: 129089, Stop: 128934, Start Num: 14
Candidate Starts for Amabiko_286:
(4, 129200), (9, 129122), (12, 129104), (Start: 13 @129092 has 2 MA's), (Start: 14 @129089 has 58 MA's), (19, 129056), (21, 129044), (23, 129032), (27, 128987), (28, 128981),

Gene: AngryGiraffe_278 Start: 128505, Stop: 128350, Start Num: 14
Candidate Starts for AngryGiraffe_278:
(4, 128616), (9, 128538), (12, 128520), (Start: 14 @128505 has 58 MA's), (18, 128475), (21, 128460), (27, 128403),

Gene: AngryGiraffe_22 Start: 10162, Stop: 10007, Start Num: 14
Candidate Starts for AngryGiraffe_22:
(4, 10273), (9, 10195), (12, 10177), (Start: 14 @10162 has 58 MA's), (18, 10132), (21, 10117), (27, 10060),

Gene: ArianaSWT_272 Start: 131880, Stop: 131737, Start Num: 15
Candidate Starts for ArianaSWT_272:
(Start: 15 @131880 has 66 MA's), (19, 131847), (20, 131844), (26, 131793), (28, 131784),

Gene: ArianaSWT_19 Start: 9046, Stop: 8903, Start Num: 15
Candidate Starts for ArianaSWT_19:
(Start: 15 @9046 has 66 MA's), (19, 9013), (20, 9010), (26, 8959), (28, 8950),

Gene: Bartholomune_18 Start: 8759, Stop: 8616, Start Num: 15
Candidate Starts for Bartholomune_18:
(3, 8879), (5, 8819), (7, 8813), (Start: 15 @8759 has 66 MA's), (19, 8726), (20, 8723), (28, 8663),

Gene: Bartholomune_268 Start: 129858, Stop: 129715, Start Num: 15
Candidate Starts for Bartholomune_268:
(3, 129978), (5, 129918), (7, 129912), (Start: 15 @129858 has 66 MA's), (19, 129825), (20, 129822), (28, 129762),

Gene: Battuta_278 Start: 128418, Stop: 128263, Start Num: 14
Candidate Starts for Battuta_278:
(4, 128529), (8, 128457), (9, 128451), (12, 128433), (Start: 13 @128421 has 2 MA's), (Start: 14 @128418 has 58 MA's), (19, 128385), (21, 128373), (23, 128361), (27, 128316), (28, 128310),

Gene: Battuta_21 Start: 10263, Stop: 10108, Start Num: 14
Candidate Starts for Battuta_21:
(4, 10374), (8, 10302), (9, 10296), (12, 10278), (Start: 13 @10266 has 2 MA's), (Start: 14 @10263 has 58 MA's), (19, 10230), (21, 10218), (23, 10206), (27, 10161), (28, 10155),

Gene: Birchlyn_18 Start: 8116, Stop: 7961, Start Num: 14
Candidate Starts for Birchlyn_18:
(4, 8227), (8, 8155), (9, 8149), (12, 8131), (Start: 13 @8119 has 2 MA's), (Start: 14 @8116 has 58 MA's), (19, 8083), (21, 8071), (23, 8059), (27, 8014), (28, 8008),

Gene: Birchlyn_278 Start: 124207, Stop: 124052, Start Num: 14
Candidate Starts for Birchlyn_278:
(4, 124318), (8, 124246), (9, 124240), (12, 124222), (Start: 13 @124210 has 2 MA's), (Start: 14 @124207 has 58 MA's), (19, 124174), (21, 124162), (23, 124150), (27, 124105), (28, 124099),

Gene: BlueOtter_267 Start: 130132, Stop: 129989, Start Num: 15
Candidate Starts for BlueOtter_267:
(Start: 15 @130132 has 66 MA's), (19, 130099), (20, 130096), (26, 130045), (28, 130036),

Gene: BlueOtter_19 Start: 9045, Stop: 8902, Start Num: 15
Candidate Starts for BlueOtter_19:
(Start: 15 @9045 has 66 MA's), (19, 9012), (20, 9009), (26, 8958), (28, 8949),

Gene: BoomerJR_277 Start: 128950, Stop: 128795, Start Num: 14
Candidate Starts for BoomerJR_277:
(4, 129061), (9, 128983), (12, 128965), (Start: 14 @128950 has 58 MA's), (18, 128920), (21, 128905), (27, 128848),

Gene: BoomerJR_22 Start: 10162, Stop: 10007, Start Num: 14
Candidate Starts for BoomerJR_22:
(4, 10273), (9, 10195), (12, 10177), (Start: 14 @10162 has 58 MA's), (18, 10132), (21, 10117), (27, 10060),

Gene: Bordeaux_21 Start: 10263, Stop: 10108, Start Num: 14
Candidate Starts for Bordeaux_21:
(4, 10374), (8, 10302), (9, 10296), (12, 10278), (Start: 13 @10266 has 2 MA's), (Start: 14 @10263 has 58 MA's), (19, 10230), (21, 10218), (23, 10206), (27, 10161), (28, 10155),

Gene: Bordeaux_278 Start: 129001, Stop: 128846, Start Num: 14
Candidate Starts for Bordeaux_278:
(4, 129112), (8, 129040), (9, 129034), (12, 129016), (Start: 13 @129004 has 2 MA's), (Start: 14 @129001 has 58 MA's), (19, 128968), (21, 128956), (23, 128944), (27, 128899), (28, 128893),

Gene: Braelyn_18 Start: 8802, Stop: 8659, Start Num: 15
Candidate Starts for Braelyn_18:
(3, 8922), (5, 8862), (7, 8856), (Start: 15 @8802 has 66 MA's), (19, 8769), (20, 8766), (28, 8706),

Gene: Braelyn_263 Start: 129212, Stop: 129069, Start Num: 15
Candidate Starts for Braelyn_263:
(3, 129332), (5, 129272), (7, 129266), (Start: 15 @129212 has 66 MA's), (19, 129179), (20, 129176), (28, 129116),

Gene: Brizzy_20 Start: 9852, Stop: 9697, Start Num: 14
Candidate Starts for Brizzy_20:
(4, 9963), (8, 9891), (9, 9885), (12, 9867), (Start: 13 @9855 has 2 MA's), (Start: 14 @9852 has 58 MA's), (19, 9819), (21, 9807), (23, 9795), (27, 9750), (28, 9744),

Gene: Brizzy_278 Start: 129120, Stop: 128965, Start Num: 14
Candidate Starts for Brizzy_278:
(4, 129231), (8, 129159), (9, 129153), (12, 129135), (Start: 13 @129123 has 2 MA's), (Start: 14 @129120 has 58 MA's), (19, 129087), (21, 129075), (23, 129063), (27, 129018), (28, 129012),

Gene: Cadmus_265 Start: 131179, Stop: 131036, Start Num: 15
Candidate Starts for Cadmus_265:
(Start: 15 @131179 has 66 MA's), (19, 131146), (20, 131143), (28, 131083),

Gene: Cadmus_17 Start: 8698, Stop: 8555, Start Num: 15
Candidate Starts for Cadmus_17:
(Start: 15 @8698 has 66 MA's), (19, 8665), (20, 8662), (28, 8602),

Gene: CeilingFan_287 Start: 130711, Stop: 130556, Start Num: 14
Candidate Starts for CeilingFan_287:
(10, 130735), (Start: 14 @130711 has 58 MA's), (21, 130666), (24, 130651), (27, 130609), (29, 130591), (30, 130561),

Gene: CeilingFan_21 Start: 10104, Stop: 9949, Start Num: 14
Candidate Starts for CeilingFan_21:
(10, 10128), (Start: 14 @10104 has 58 MA's), (21, 10059), (24, 10044), (27, 10002), (29, 9984), (30, 9954),

Gene: Coogler_265 Start: 130558, Stop: 130415, Start Num: 15
Candidate Starts for Coogler_265:
(Start: 15 @130558 has 66 MA's), (19, 130525), (20, 130522), (26, 130471), (28, 130462),

Gene: Coogler_19 Start: 9046, Stop: 8903, Start Num: 15
Candidate Starts for Coogler_19:
(Start: 15 @9046 has 66 MA's), (19, 9013), (20, 9010), (26, 8959), (28, 8950),

Gene: Cross_267 Start: 130778, Stop: 130635, Start Num: 15
Candidate Starts for Cross_267:
(Start: 15 @130778 has 66 MA's), (19, 130745), (20, 130742), (26, 130691), (28, 130682),

Gene: Cross_19 Start: 9046, Stop: 8903, Start Num: 15
Candidate Starts for Cross_19:
(Start: 15 @9046 has 66 MA's), (19, 9013), (20, 9010), (26, 8959), (28, 8950),

Gene: Cursive_17 Start: 7863, Stop: 7720, Start Num: 15
Candidate Starts for Cursive_17:
(Start: 15 @7863 has 66 MA's), (19, 7830), (20, 7827), (26, 7776), (28, 7767),

Gene: Cursive_271 Start: 129872, Stop: 129729, Start Num: 15
Candidate Starts for Cursive_271:
(Start: 15 @129872 has 66 MA's), (19, 129839), (20, 129836), (26, 129785), (28, 129776),

Gene: Daisy123_283 Start: 129733, Stop: 129578, Start Num: 14
Candidate Starts for Daisy123_283:
(4, 129844), (8, 129772), (9, 129766), (12, 129748), (Start: 13 @129736 has 2 MA's), (Start: 14 @129733 has 58 MA's), (19, 129700), (21, 129688), (23, 129676), (27, 129631), (28, 129625),

Gene: Daisy123_20 Start: 9873, Stop: 9718, Start Num: 14
Candidate Starts for Daisy123_20:
(4, 9984), (8, 9912), (9, 9906), (12, 9888), (Start: 13 @9876 has 2 MA's), (Start: 14 @9873 has 58 MA's), (19, 9840), (21, 9828), (23, 9816), (27, 9771), (28, 9765),

Gene: Daubenski_18 Start: 8696, Stop: 8553, Start Num: 15
Candidate Starts for Daubenski_18:
(Start: 15 @8696 has 66 MA's), (19, 8663), (20, 8660), (28, 8600),

Gene: Daubenski_262 Start: 131072, Stop: 130929, Start Num: 15
Candidate Starts for Daubenski_262:
(Start: 15 @131072 has 66 MA's), (19, 131039), (20, 131036), (28, 130976),

Gene: Davielle_266 Start: 129748, Stop: 129605, Start Num: 15
Candidate Starts for Davielle_266:
(3, 129868), (5, 129808), (7, 129802), (Start: 15 @129748 has 66 MA's), (19, 129715), (20, 129712), (28, 129652),

Gene: Davielle_17 Start: 8588, Stop: 8445, Start Num: 15
Candidate Starts for Davielle_17:
(3, 8708), (5, 8648), (7, 8642), (Start: 15 @8588 has 66 MA's), (19, 8555), (20, 8552), (28, 8492),

Gene: Eliot67_269 Start: 129573, Stop: 129430, Start Num: 15
Candidate Starts for Eliot67_269:
(3, 129693), (5, 129633), (7, 129627), (Start: 15 @129573 has 66 MA's), (19, 129540), (20, 129537), (28, 129477),

Gene: Eliot67_18 Start: 8759, Stop: 8616, Start Num: 15
Candidate Starts for Eliot67_18:
(3, 8879), (5, 8819), (7, 8813), (Start: 15 @8759 has 66 MA's), (19, 8726), (20, 8723), (28, 8663),

Gene: Elmer_287 Start: 131559, Stop: 131431, Start Num: 17
Candidate Starts for Elmer_287:
(6, 131616), (7, 131613), (Start: 17 @131559 has 6 MA's),

Gene: Elmer_20 Start: 9191, Stop: 9063, Start Num: 17
Candidate Starts for Elmer_20:
(6, 9248), (7, 9245), (Start: 17 @9191 has 6 MA's),

Gene: Evy_19 Start: 9226, Stop: 9083, Start Num: 15

Candidate Starts for Evy_19:
(3, 9346), (5, 9286), (7, 9280), (11, 9250), (Start: 15 @9226 has 66 MA's), (19, 9193), (20, 9190), (28, 9130),

Gene: Evy_257 Start: 130955, Stop: 130812, Start Num: 15
Candidate Starts for Evy_257:
(3, 131075), (5, 131015), (7, 131009), (11, 130979), (Start: 15 @130955 has 66 MA's), (19, 130922), (20, 130919), (28, 130859),

Gene: FreddyDRoo_18 Start: 8759, Stop: 8616, Start Num: 15
Candidate Starts for FreddyDRoo_18:
(3, 8879), (5, 8819), (7, 8813), (Start: 15 @8759 has 66 MA's), (19, 8726), (20, 8723), (28, 8663),

Gene: FreddyDRoo_268 Start: 129573, Stop: 129430, Start Num: 15
Candidate Starts for FreddyDRoo_268:
(3, 129693), (5, 129633), (7, 129627), (Start: 15 @129573 has 66 MA's), (19, 129540), (20, 129537), (28, 129477),

Gene: Genie2_22 Start: 10162, Stop: 10007, Start Num: 14
Candidate Starts for Genie2_22:
(4, 10273), (9, 10195), (12, 10177), (Start: 14 @10162 has 58 MA's), (18, 10132), (21, 10117), (27, 10060),

Gene: Genie2_277 Start: 129063, Stop: 128908, Start Num: 14
Candidate Starts for Genie2_277:
(4, 129174), (9, 129096), (12, 129078), (Start: 14 @129063 has 58 MA's), (18, 129033), (21, 129018), (27, 128961),

Gene: Gibbi_294 Start: 129974, Stop: 129819, Start Num: 14
Candidate Starts for Gibbi_294:
(4, 130085), (8, 130013), (9, 130007), (12, 129989), (Start: 13 @129977 has 2 MA's), (Start: 14 @129974 has 58 MA's), (19, 129941), (21, 129929), (23, 129917), (27, 129872), (28, 129866),

Gene: Gibbi_23 Start: 9874, Stop: 9719, Start Num: 14
Candidate Starts for Gibbi_23:
(4, 9985), (8, 9913), (9, 9907), (12, 9889), (Start: 13 @9877 has 2 MA's), (Start: 14 @9874 has 58 MA's), (19, 9841), (21, 9829), (23, 9817), (27, 9772), (28, 9766),

Gene: HangryHippo_19 Start: 9045, Stop: 8902, Start Num: 15
Candidate Starts for HangryHippo_19:
(Start: 15 @9045 has 66 MA's), (19, 9012), (20, 9009), (26, 8958), (28, 8949),

Gene: HangryHippo_267 Start: 130132, Stop: 129989, Start Num: 15
Candidate Starts for HangryHippo_267:
(Start: 15 @130132 has 66 MA's), (19, 130099), (20, 130096), (26, 130045), (28, 130036),

Gene: IchabodCrane_273 Start: 128417, Stop: 128259, Start Num: 13
Candidate Starts for IchabodCrane_273:
(4, 128525), (8, 128453), (9, 128447), (12, 128429), (Start: 13 @128417 has 2 MA's), (Start: 14 @128414 has 58 MA's), (19, 128381), (21, 128369), (23, 128357), (25, 128330), (27, 128312), (28, 128306),

Gene: IchabodCrane_20 Start: 9874, Stop: 9716, Start Num: 13

Candidate Starts for IchabodCrane_20:
(4, 9982), (8, 9910), (9, 9904), (12, 9886), (Start: 13 @9874 has 2 MA's), (Start: 14 @9871 has 58 MA's), (19, 9838), (21, 9826), (23, 9814), (25, 9787), (27, 9769), (28, 9763),

Gene: JimJam_289 Start: 131798, Stop: 131643, Start Num: 14
Candidate Starts for JimJam_289:
(4, 131909), (8, 131837), (9, 131831), (12, 131813), (Start: 13 @131801 has 2 MA's), (Start: 14 @131798 has 58 MA's), (19, 131765), (21, 131753), (23, 131741), (27, 131696), (28, 131690),

Gene: JimJam_21 Start: 10262, Stop: 10107, Start Num: 14
Candidate Starts for JimJam_21:
(4, 10373), (8, 10301), (9, 10295), (12, 10277), (Start: 13 @10265 has 2 MA's), (Start: 14 @10262 has 58 MA's), (19, 10229), (21, 10217), (23, 10205), (27, 10160), (28, 10154),

Gene: Jollison_22 Start: 10263, Stop: 10108, Start Num: 14
Candidate Starts for Jollison_22:
(4, 10374), (8, 10302), (9, 10296), (12, 10278), (Start: 13 @10266 has 2 MA's), (Start: 14 @10263 has 58 MA's), (19, 10230), (21, 10218), (23, 10206), (27, 10161), (28, 10155),

Gene: Jollison_279 Start: 128938, Stop: 128783, Start Num: 14
Candidate Starts for Jollison_279:
(4, 129049), (8, 128977), (9, 128971), (12, 128953), (Start: 13 @128941 has 2 MA's), (Start: 14 @128938 has 58 MA's), (19, 128905), (21, 128893), (23, 128881), (27, 128836), (28, 128830),

Gene: Karimac_279 Start: 129584, Stop: 129429, Start Num: 14
Candidate Starts for Karimac_279:
(4, 129695), (8, 129623), (9, 129617), (12, 129599), (Start: 13 @129587 has 2 MA's), (Start: 14 @129584 has 58 MA's), (19, 129551), (21, 129539), (23, 129527), (25, 129500), (27, 129482), (28, 129476),

Gene: Karimac_21 Start: 10265, Stop: 10110, Start Num: 14
Candidate Starts for Karimac_21:
(4, 10376), (8, 10304), (9, 10298), (12, 10280), (Start: 13 @10268 has 2 MA's), (Start: 14 @10265 has 58 MA's), (19, 10232), (21, 10220), (23, 10208), (25, 10181), (27, 10163), (28, 10157),

Gene: KentuckyRacer_21 Start: 10105, Stop: 9950, Start Num: 14
Candidate Starts for KentuckyRacer_21:
(10, 10129), (Start: 14 @10105 has 58 MA's), (21, 10060), (24, 10045), (27, 10003), (29, 9985), (30, 9955),

Gene: KentuckyRacer_289 Start: 131556, Stop: 131401, Start Num: 14
Candidate Starts for KentuckyRacer_289:
(10, 131580), (Start: 14 @131556 has 58 MA's), (21, 131511), (24, 131496), (27, 131454), (29, 131436), (30, 131406),

Gene: Larnav_269 Start: 131051, Stop: 130908, Start Num: 15
Candidate Starts for Larnav_269:
(Start: 15 @131051 has 66 MA's), (19, 131018), (20, 131015), (26, 130964), (28, 130955),

Gene: Larnav_19 Start: 9046, Stop: 8903, Start Num: 15
Candidate Starts for Larnav_19:
(Start: 15 @9046 has 66 MA's), (19, 9013), (20, 9010), (26, 8959), (28, 8950),

Gene: Leo04_270 Start: 131162, Stop: 131019, Start Num: 15
Candidate Starts for Leo04_270:
(Start: 15 @131162 has 66 MA's), (19, 131129), (20, 131126), (26, 131075), (28, 131066),

Gene: Leo04_19 Start: 9044, Stop: 8901, Start Num: 15
Candidate Starts for Leo04_19:
(Start: 15 @9044 has 66 MA's), (19, 9011), (20, 9008), (26, 8957), (28, 8948),

Gene: Liandry_267 Start: 130279, Stop: 130136, Start Num: 15
Candidate Starts for Liandry_267:
(3, 130399), (5, 130339), (7, 130333), (Start: 15 @130279 has 66 MA's), (19, 130246), (20, 130243), (28, 130183),

Gene: Liandry_18 Start: 8758, Stop: 8615, Start Num: 15
Candidate Starts for Liandry_18:
(3, 8878), (5, 8818), (7, 8812), (Start: 15 @8758 has 66 MA's), (19, 8725), (20, 8722), (28, 8662),

Gene: LukeCage_21 Start: 10057, Stop: 9902, Start Num: 14
Candidate Starts for LukeCage_21:
(10, 10081), (Start: 14 @10057 has 58 MA's), (21, 10012), (24, 9997), (27, 9955), (29, 9937), (30, 9907),

Gene: LukeCage_284 Start: 130961, Stop: 130806, Start Num: 14
Candidate Starts for LukeCage_284:
(10, 130985), (Start: 14 @130961 has 58 MA's), (21, 130916), (24, 130901), (27, 130859), (29, 130841), (30, 130811),

Gene: Lululemon_265 Start: 129317, Stop: 129174, Start Num: 15
Candidate Starts for Lululemon_265:
(Start: 15 @129317 has 66 MA's), (19, 129284), (20, 129281), (26, 129230), (28, 129221),

Gene: Lululemon_18 Start: 8425, Stop: 8282, Start Num: 15
Candidate Starts for Lululemon_18:
(Start: 15 @8425 has 66 MA's), (19, 8392), (20, 8389), (26, 8338), (28, 8329),

Gene: MindFlayer_272 Start: 127933, Stop: 127778, Start Num: 14
Candidate Starts for MindFlayer_272:
(4, 128044), (9, 127966), (12, 127948), (Start: 13 @127936 has 2 MA's), (Start: 14 @127933 has 58 MA's), (19, 127900), (21, 127888), (23, 127876), (27, 127831), (28, 127825),

Gene: MindFlayer_20 Start: 9873, Stop: 9718, Start Num: 14
Candidate Starts for MindFlayer_20:
(4, 9984), (9, 9906), (12, 9888), (Start: 13 @9876 has 2 MA's), (Start: 14 @9873 has 58 MA's), (19, 9840), (21, 9828), (23, 9816), (27, 9771), (28, 9765),

Gene: Mugiwara_20 Start: 9706, Stop: 9548, Start Num: 14
Candidate Starts for Mugiwara_20:
(10, 9730), (Start: 14 @9706 has 58 MA's), (16, 9697), (21, 9658), (23, 9646), (24, 9643), (27, 9601), (29, 9583),

Gene: Mugiwara_287 Start: 131091, Stop: 130933, Start Num: 14
Candidate Starts for Mugiwara_287:

(10, 131115), (Start: 14 @131091 has 58 MA's), (16, 131082), (21, 131043), (23, 131031), (24, 131028), (27, 130986), (29, 130968),

Gene: Navo_259 Start: 128182, Stop: 128039, Start Num: 15
Candidate Starts for Navo_259:
(3, 128302), (5, 128242), (7, 128236), (Start: 15 @128182 has 66 MA's), (19, 128149), (20, 128146), (28, 128086),

Gene: Navo_17 Start: 8557, Stop: 8414, Start Num: 15
Candidate Starts for Navo_17:
(3, 8677), (5, 8617), (7, 8611), (Start: 15 @8557 has 66 MA's), (19, 8524), (20, 8521), (28, 8461),

Gene: NootNoot_263 Start: 129068, Stop: 128925, Start Num: 15
Candidate Starts for NootNoot_263:
(3, 129188), (5, 129128), (7, 129122), (Start: 15 @129068 has 66 MA's), (19, 129035), (20, 129032), (28, 128972),

Gene: NootNoot_18 Start: 8769, Stop: 8626, Start Num: 15
Candidate Starts for NootNoot_18:
(3, 8889), (5, 8829), (7, 8823), (Start: 15 @8769 has 66 MA's), (19, 8736), (20, 8733), (28, 8673),

Gene: PacManQ_18 Start: 8425, Stop: 8282, Start Num: 15
Candidate Starts for PacManQ_18:
(Start: 15 @8425 has 66 MA's), (19, 8392), (20, 8389), (26, 8338), (28, 8329),

Gene: PacManQ_265 Start: 129317, Stop: 129174, Start Num: 15
Candidate Starts for PacManQ_265:
(Start: 15 @129317 has 66 MA's), (19, 129284), (20, 129281), (26, 129230), (28, 129221),

Gene: Paradiddles_18 Start: 8759, Stop: 8616, Start Num: 15
Candidate Starts for Paradiddles_18:
(1, 8915), (2, 8903), (5, 8819), (7, 8813), (Start: 15 @8759 has 66 MA's), (19, 8726), (20, 8723), (28, 8663),

Gene: Paradiddles_259 Start: 131467, Stop: 131324, Start Num: 15
Candidate Starts for Paradiddles_259:
(1, 131623), (2, 131611), (5, 131527), (7, 131521), (Start: 15 @131467 has 66 MA's), (19, 131434), (20, 131431), (28, 131371),

Gene: Peebs_266 Start: 131019, Stop: 130876, Start Num: 15
Candidate Starts for Peebs_266:
(Start: 15 @131019 has 66 MA's), (19, 130986), (20, 130983), (26, 130932), (28, 130923),

Gene: Peebs_19 Start: 9044, Stop: 8901, Start Num: 15
Candidate Starts for Peebs_19:
(Start: 15 @9044 has 66 MA's), (19, 9011), (20, 9008), (26, 8957), (28, 8948),

Gene: Pepperwood_20 Start: 9199, Stop: 9056, Start Num: 15
Candidate Starts for Pepperwood_20:
(Start: 15 @9199 has 66 MA's), (19, 9166), (20, 9163), (26, 9112), (28, 9103),

Gene: Pepperwood_269 Start: 130984, Stop: 130841, Start Num: 15
Candidate Starts for Pepperwood_269:

(Start: 15 @130984 has 66 MA's), (19, 130951), (20, 130948), (26, 130897), (28, 130888),

Gene: Persimmon_268 Start: 129399, Stop: 129256, Start Num: 15
Candidate Starts for Persimmon_268:
(3, 129519), (5, 129459), (7, 129453), (Start: 15 @129399 has 66 MA's), (19, 129366), (20, 129363), (28, 129303),

Gene: Persimmon_17 Start: 8588, Stop: 8445, Start Num: 15
Candidate Starts for Persimmon_17:
(3, 8708), (5, 8648), (7, 8642), (Start: 15 @8588 has 66 MA's), (19, 8555), (20, 8552), (28, 8492),

Gene: PinkiePie_18 Start: 8759, Stop: 8616, Start Num: 15
Candidate Starts for PinkiePie_18:
(3, 8879), (5, 8819), (7, 8813), (Start: 15 @8759 has 66 MA's), (19, 8726), (20, 8723), (28, 8663),

Gene: PinkiePie_268 Start: 130280, Stop: 130137, Start Num: 15
Candidate Starts for PinkiePie_268:
(3, 130400), (5, 130340), (7, 130334), (Start: 15 @130280 has 66 MA's), (19, 130247), (20, 130244), (28, 130184),

Gene: PumpkinSpice_21 Start: 10263, Stop: 10108, Start Num: 14
Candidate Starts for PumpkinSpice_21:
(4, 10374), (8, 10302), (9, 10296), (12, 10278), (Start: 13 @10266 has 2 MA's), (Start: 14 @10263 has 58 MA's), (19, 10230), (21, 10218), (23, 10206), (27, 10161), (28, 10155),

Gene: PumpkinSpice_285 Start: 130155, Stop: 130000, Start Num: 14
Candidate Starts for PumpkinSpice_285:
(4, 130266), (8, 130194), (9, 130188), (12, 130170), (Start: 13 @130158 has 2 MA's), (Start: 14 @130155 has 58 MA's), (19, 130122), (21, 130110), (23, 130098), (27, 130053), (28, 130047),

Gene: PynkPanther_266 Start: 131036, Stop: 130893, Start Num: 15
Candidate Starts for PynkPanther_266:
(Start: 14 @131039 has 58 MA's), (Start: 15 @131036 has 66 MA's), (19, 131003), (20, 131000), (28, 130940),

Gene: PynkPanther_18 Start: 8747, Stop: 8604, Start Num: 15
Candidate Starts for PynkPanther_18:
(Start: 14 @8750 has 58 MA's), (Start: 15 @8747 has 66 MA's), (19, 8714), (20, 8711), (28, 8651),

Gene: Quaran19_282 Start: 129445, Stop: 129290, Start Num: 14
Candidate Starts for Quaran19_282:
(4, 129556), (8, 129484), (9, 129478), (12, 129460), (Start: 13 @129448 has 2 MA's), (Start: 14 @129445 has 58 MA's), (19, 129412), (21, 129400), (23, 129388), (27, 129343), (28, 129337),

Gene: Quaran19_21 Start: 10263, Stop: 10108, Start Num: 14
Candidate Starts for Quaran19_21:
(4, 10374), (8, 10302), (9, 10296), (12, 10278), (Start: 13 @10266 has 2 MA's), (Start: 14 @10263 has 58 MA's), (19, 10230), (21, 10218), (23, 10206), (27, 10161), (28, 10155),

Gene: Rikishi_284 Start: 130287, Stop: 130132, Start Num: 14
Candidate Starts for Rikishi_284:
(10, 130311), (Start: 14 @130287 has 58 MA's), (21, 130242), (24, 130227), (27, 130185), (29, 130167), (30, 130137),

Gene: Rikishi_23 Start: 10214, Stop: 10059, Start Num: 14
Candidate Starts for Rikishi_23:
(10, 10238), (Start: 14 @10214 has 58 MA's), (21, 10169), (24, 10154), (27, 10112), (29, 10094), (30, 10064),

Gene: SaltySpitoon_21 Start: 10263, Stop: 10108, Start Num: 14
Candidate Starts for SaltySpitoon_21:
(4, 10374), (8, 10302), (9, 10296), (12, 10278), (Start: 13 @10266 has 2 MA's), (Start: 14 @10263 has 58 MA's), (19, 10230), (21, 10218), (23, 10206), (27, 10161), (28, 10155),

Gene: SaltySpitoon_281 Start: 128527, Stop: 128372, Start Num: 14
Candidate Starts for SaltySpitoon_281:
(4, 128638), (8, 128566), (9, 128560), (12, 128542), (Start: 13 @128530 has 2 MA's), (Start: 14 @128527 has 58 MA's), (19, 128494), (21, 128482), (23, 128470), (27, 128425), (28, 128419),

Gene: Scheme_20 Start: 9199, Stop: 9056, Start Num: 15
Candidate Starts for Scheme_20:
(Start: 15 @9199 has 66 MA's), (19, 9166), (20, 9163), (26, 9112), (28, 9103),

Gene: Scheme_273 Start: 132394, Stop: 132251, Start Num: 15
Candidate Starts for Scheme_273:
(Start: 15 @132394 has 66 MA's), (19, 132361), (20, 132358), (26, 132307), (28, 132298),

Gene: Sollertia_278 Start: 129052, Stop: 128897, Start Num: 14
Candidate Starts for Sollertia_278:
(4, 129163), (9, 129085), (12, 129067), (Start: 14 @129052 has 58 MA's), (18, 129022), (21, 129007), (27, 128950),

Gene: Sollertia_22 Start: 10162, Stop: 10007, Start Num: 14
Candidate Starts for Sollertia_22:
(4, 10273), (9, 10195), (12, 10177), (Start: 14 @10162 has 58 MA's), (18, 10132), (21, 10117), (27, 10060),

Gene: Spelly_287 Start: 129067, Stop: 128912, Start Num: 14
Candidate Starts for Spelly_287:
(4, 129178), (8, 129106), (9, 129100), (12, 129082), (Start: 13 @129070 has 2 MA's), (Start: 14 @129067 has 58 MA's), (19, 129034), (21, 129022), (23, 129010), (27, 128965), (28, 128959),

Gene: Spelly_21 Start: 10263, Stop: 10108, Start Num: 14
Candidate Starts for Spelly_21:
(4, 10374), (8, 10302), (9, 10296), (12, 10278), (Start: 13 @10266 has 2 MA's), (Start: 14 @10263 has 58 MA's), (19, 10230), (21, 10218), (23, 10206), (27, 10161), (28, 10155),

Gene: Spilled_20 Start: 9873, Stop: 9718, Start Num: 14
Candidate Starts for Spilled_20:
(4, 9984), (8, 9912), (9, 9906), (12, 9888), (Start: 13 @9876 has 2 MA's), (Start: 14 @9873 has 58 MA's), (19, 9840), (21, 9828), (23, 9816), (27, 9771), (28, 9765),

Gene: Spilled_288 Start: 130342, Stop: 130187, Start Num: 14
Candidate Starts for Spilled_288:
(4, 130453), (8, 130381), (9, 130375), (12, 130357), (Start: 13 @130345 has 2 MA's), (Start: 14 @130342 has 58 MA's), (19, 130309), (21, 130297), (23, 130285), (27, 130240), (28, 130234),

Gene: Squillium_270 Start: 130282, Stop: 130139, Start Num: 15
Candidate Starts for Squillium_270:
(3, 130402), (5, 130342), (7, 130336), (Start: 15 @130282 has 66 MA's), (19, 130249), (20, 130246), (28, 130186),

Gene: Squillium_18 Start: 8758, Stop: 8615, Start Num: 15
Candidate Starts for Squillium_18:
(3, 8878), (5, 8818), (7, 8812), (Start: 15 @8758 has 66 MA's), (19, 8725), (20, 8722), (28, 8662),

Gene: Stanimal_277 Start: 129436, Stop: 129281, Start Num: 14
Candidate Starts for Stanimal_277:
(4, 129547), (9, 129469), (12, 129451), (Start: 14 @129436 has 58 MA's), (18, 129406), (21, 129391), (27, 129334),

Gene: Stanimal_22 Start: 10162, Stop: 10007, Start Num: 14
Candidate Starts for Stanimal_22:
(4, 10273), (9, 10195), (12, 10177), (Start: 14 @10162 has 58 MA's), (18, 10132), (21, 10117), (27, 10060),

Gene: Starbow_21 Start: 10263, Stop: 10108, Start Num: 14
Candidate Starts for Starbow_21:
(4, 10374), (8, 10302), (9, 10296), (12, 10278), (Start: 13 @10266 has 2 MA's), (Start: 14 @10263 has 58 MA's), (19, 10230), (21, 10218), (23, 10206), (27, 10161), (28, 10155),

Gene: Starbow_278 Start: 129111, Stop: 128956, Start Num: 14
Candidate Starts for Starbow_278:
(4, 129222), (8, 129150), (9, 129144), (12, 129126), (Start: 13 @129114 has 2 MA's), (Start: 14 @129111 has 58 MA's), (19, 129078), (21, 129066), (23, 129054), (27, 129009), (28, 129003),

Gene: Sushi23_20 Start: 9046, Stop: 8903, Start Num: 15
Candidate Starts for Sushi23_20:
(Start: 15 @9046 has 66 MA's), (19, 9013), (20, 9010), (26, 8959), (28, 8950),

Gene: Sushi23_270 Start: 131889, Stop: 131746, Start Num: 15
Candidate Starts for Sushi23_270:
(Start: 15 @131889 has 66 MA's), (19, 131856), (20, 131853), (26, 131802), (28, 131793),

Gene: Targaryen_268 Start: 132898, Stop: 132755, Start Num: 15
Candidate Starts for Targaryen_268:
(3, 133018), (5, 132958), (7, 132952), (11, 132922), (Start: 15 @132898 has 66 MA's), (19, 132865), (20, 132862), (28, 132802),

Gene: Targaryen_17 Start: 9222, Stop: 9079, Start Num: 15
Candidate Starts for Targaryen_17:
(3, 9342), (5, 9282), (7, 9276), (11, 9246), (Start: 15 @9222 has 66 MA's), (19, 9189), (20, 9186), (28, 9126),

Gene: TomSawyer_286 Start: 131635, Stop: 131480, Start Num: 14
Candidate Starts for TomSawyer_286:
(4, 131746), (8, 131674), (9, 131668), (12, 131650), (Start: 13 @131638 has 2 MA's), (Start: 14 @131635 has 58 MA's), (19, 131602), (21, 131590), (23, 131578), (27, 131533), (28, 131527),

Gene: TomSawyer_21 Start: 9856, Stop: 9701, Start Num: 14
Candidate Starts for TomSawyer_21:
(4, 9967), (8, 9895), (9, 9889), (12, 9871), (Start: 13 @9859 has 2 MA's), (Start: 14 @9856 has 58 MA's), (19, 9823), (21, 9811), (23, 9799), (27, 9754), (28, 9748),

Gene: Tomas_23 Start: 10728, Stop: 10597, Start Num: 17
Candidate Starts for Tomas_23:
(Start: 17 @10728 has 6 MA's), (22, 10695),

Gene: Tomas_279 Start: 132435, Stop: 132304, Start Num: 17
Candidate Starts for Tomas_279:
(Start: 17 @132435 has 6 MA's), (22, 132402),

Gene: Tuesday_23 Start: 10263, Stop: 10108, Start Num: 14
Candidate Starts for Tuesday_23:
(4, 10374), (8, 10302), (9, 10296), (12, 10278), (Start: 13 @10266 has 2 MA's), (Start: 14 @10263 has 58 MA's), (19, 10230), (21, 10218), (23, 10206), (27, 10161), (28, 10155),

Gene: Tuesday_291 Start: 129511, Stop: 129356, Start Num: 14
Candidate Starts for Tuesday_291:
(4, 129622), (8, 129550), (9, 129544), (12, 129526), (Start: 13 @129514 has 2 MA's), (Start: 14 @129511 has 58 MA's), (19, 129478), (21, 129466), (23, 129454), (27, 129409), (28, 129403),

Gene: WashU_20 Start: 9199, Stop: 9056, Start Num: 15
Candidate Starts for WashU_20:
(Start: 15 @9199 has 66 MA's), (19, 9166), (20, 9163), (26, 9112), (28, 9103),

Gene: WashU_264 Start: 131193, Stop: 131050, Start Num: 15
Candidate Starts for WashU_264:
(Start: 15 @131193 has 66 MA's), (19, 131160), (20, 131157), (26, 131106), (28, 131097),

Gene: Watermoore_266 Start: 131642, Stop: 131499, Start Num: 15
Candidate Starts for Watermoore_266:
(Start: 15 @131642 has 66 MA's), (19, 131609), (20, 131606), (26, 131555), (28, 131546),

Gene: Watermoore_19 Start: 9046, Stop: 8903, Start Num: 15
Candidate Starts for Watermoore_19:
(Start: 15 @9046 has 66 MA's), (19, 9013), (20, 9010), (26, 8959), (28, 8950),

Gene: WhereRU_17 Start: 8588, Stop: 8445, Start Num: 15
Candidate Starts for WhereRU_17:
(3, 8708), (5, 8648), (7, 8642), (Start: 15 @8588 has 66 MA's), (19, 8555), (20, 8552), (28, 8492),

Gene: WhereRU_266 Start: 129733, Stop: 129590, Start Num: 15
Candidate Starts for WhereRU_266:
(3, 129853), (5, 129793), (7, 129787), (Start: 15 @129733 has 66 MA's), (19, 129700), (20, 129697), (28, 129637),

Gene: Wipeout_274 Start: 130609, Stop: 130454, Start Num: 14
Candidate Starts for Wipeout_274:
(4, 130720), (8, 130648), (9, 130642), (12, 130624), (Start: 13 @130612 has 2 MA's), (Start: 14 @130609 has 58 MA's), (19, 130576), (21, 130564), (23, 130552), (27, 130507), (28, 130501),

Gene: Wipeout_20 Start: 9878, Stop: 9723, Start Num: 14
Candidate Starts for Wipeout_20:
(4, 9989), (8, 9917), (9, 9911), (12, 9893), (Start: 13 @9881 has 2 MA's), (Start: 14 @9878 has 58 MA's), (19, 9845), (21, 9833), (23, 9821), (27, 9776), (28, 9770),

Gene: Wofford_278 Start: 130989, Stop: 130861, Start Num: 17
Candidate Starts for Wofford_278:
(6, 131046), (7, 131043), (Start: 17 @130989 has 6 MA's),

Gene: Wofford_20 Start: 9196, Stop: 9068, Start Num: 17
Candidate Starts for Wofford_20:
(6, 9253), (7, 9250), (Start: 17 @9196 has 6 MA's),

Gene: Yaboi_282 Start: 128980, Stop: 128825, Start Num: 14
Candidate Starts for Yaboi_282:
(4, 129091), (9, 129013), (12, 128995), (Start: 14 @128980 has 58 MA's), (18, 128950), (21, 128935), (27, 128878),

Gene: Yaboi_21 Start: 10162, Stop: 10007, Start Num: 14
Candidate Starts for Yaboi_21:
(4, 10273), (9, 10195), (12, 10177), (Start: 14 @10162 has 58 MA's), (18, 10132), (21, 10117), (27, 10060),