Pham 283543

1: BlueOtter_268 + 17
2: Braelyn_19 + 29
3: LilMartin_271 + 5
4: Shuckle_19 + 1
5: Riptide_18 + 7
6: Coogler_266 + 3
7: Daubenski_19
8: Peebs_267 + 13
9: Daubenski_263 + 2
10: Paradiddles_19 + 1
11: Mildred21_282 + 1
12: Jay2Jay_278 + 1
13: Marsus_19 + 1
14: IchabodCrane_19 + 3
15: MindFlayer_19 + 35
16: Yaboi_20 + 19
17: Enygma_286 + 1
18: Elmer_286 + 3
19: Tomas_21 + 1
20: Rikishi_21 + 1
21: Mugiwara_285 + 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 283543 Report

This analysis was run 02/23/26 on database version 636.

Pham number 283543 has 166 members, 10 are drafts.

Phages represented in each track:
• Track 1 : BlueOtter_268, Cross_20, Leo04_271, HangryHippo_268, Cross_268, Watermoore_267, Cursive_18, Cursive_272, PacManQ_19, BlueOtter_20, Watermoore_20, Leo04_20, HangryHippo_20, PacManQ_266, EGole_273, Lululemon_266, EGole_19, Lululemon_19
• Track 2 : Braelyn_19, Navo_260, Bartholomune_19, Davielle_18, Bartholomune_269, Squillium_271, FreddyDRoo_19, PinkiePie_19, FreddyDRoo_272, Warpy_275, Persimmon_269, Braelyn_264, Liandry_268, Warpy_23, Davielle_267, WhereRU_18, Liandry_19, PinkiePie_269, Evy_20, WhereRU_267, Evy_258, NootNoot_264, Navo_18, Targaryen_269, Eliot67_270, Squillium_19, NootNoot_19, Eliot67_19, Targaryen_18, Persimmon_18
• Track 3 : LilMartin_271, MulchMansion_19, Angela_276, LilMartin_19, MulchMansion_275, Angela_19
• Track 4 : Shuckle_19, Shuckle_267
• Track 5 : Riptide_18, Anedea_282, Riptide_273, LilSaint_24, LilSaint_286, Anedea_17, Bmoc_274, Bmoc_18
• Track 6 : Coogler_266, Larnav_270, Larnav_20, Coogler_20
• Track 7 : Daubenski_19
• Track 8 : Peebs_267, Scheme_274, Pepperwood_21, Scheme_21, Peebs_20, Tribute_19, Pepperwood_270, Samisti12_269, Teutsch_266, Sushi23_21, Teutsch_19, Sushi23_271, Tribute_265, Samisti12_18
• Track 9 : Daubenski_263, Cadmus_266, Cadmus_18
• Track 10 : Paradiddles_19, Paradiddles_260
• Track 11 : Mildred21_282, Mildred21_19
• Track 12 : Jay2Jay_278, Jay2Jay_23
• Track 13 : Marsus_19, Marsus_276
• Track 14 : IchabodCrane_19, MindFlayer_271, IchabodCrane_272, JimJam_288
• Track 15 : MindFlayer_19, JimJam_20, PumpkinSpice_20, Wipeout_273, AcciDwight_293, Battuta_277, Spelly_286, Jollison_21, Spilled_19, PumpkinSpice_284, Quaran19_281, Starbow_20, AcciDwight_23, Jollison_278, Quaran19_20, Wipeout_19, SaltySpitoon_20, Birchlyn_277, SaltySpitoon_280, TomSawyer_285, Karimac_278, Battuta_20, Brizzy_19, Karimac_20, Starbow_277, Brizzy_277, Amabiko_285, Birchlyn_17, Amabiko_21, Bordeaux_277, Bordeaux_20, Gibbi_293, Spilled_287, TomSawyer_20, Gibbi_22, Spelly_20
• Track 16 : Yaboi_20, Yaboi_281, LukeCage_19, CeilingFan_285, CeilingFan_19, Stanimal_276, BoomerJR_21, KentuckyRacer_287, AngryGiraffe_277, LukeCage_282, StarPlatinum_19, Genie2_21, Sollertia_277, AngryGiraffe_21, Sollertia_21, KentuckyRacer_19, StarPlatinum_289, BoomerJR_276, Genie2_276,

Stanimal_21
• Track 17 : Enygma_286, Enygma_18
• Track 18 : Elmer_286, Elmer_19, Wofford_277, Wofford_19
• Track 19 : Tomas_21, Tomas_277
• Track 20 : Rikishi_21, Rikishi_282
• Track 21 : Mugiwara_285, Mugiwara_18

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

The start number called the most often in the published annotations is 7, it was called in 87 of the 156 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Anedea_17, Anedea_282, Angela_19, Angela_276, Bartholomune_19, Bartholomune_269, BlueOtter_20, BlueOtter_268, Bmoc_18, Bmoc_274, Braelyn_19, Braelyn_264, Cadmus_18, Cadmus_266, Coogler_20, Coogler_266, Cross_20, Cross_268, Cursive_18, Cursive_272, Daubenski_263, Davielle_18, Davielle_267, EGole_19, EGole_273, Eliot67_19, Eliot67_270, Evy_20, Evy_258, FreddyDRoo_19, FreddyDRoo_272, HangryHippo_20, HangryHippo_268, Jay2Jay_23, Jay2Jay_278, Larnav_20, Larnav_270, Leo04_20, Leo04_271, Liandry_19, Liandry_268, LilMartin_19, LilMartin_271, LilSaint_24, LilSaint_286, Lululemon_19, Lululemon_266, Marsus_19, Marsus_276, Mildred21_19, Mildred21_282, MulchMansion_19, MulchMansion_275, Navo_18, Navo_260, NootNoot_19, NootNoot_264, PacManQ_19, PacManQ_266, Paradiddles_19, Paradiddles_260, Peebs_20, Peebs_267, Pepperwood_21, Pepperwood_270, Persimmon_18, Persimmon_269, PinkiePie_19, PinkiePie_269, Riptide_18, Riptide_273, Samisti12_18, Samisti12_269, Scheme_21, Scheme_274, Shuckle_19, Shuckle_267, Squillium_19, Squillium_271, Sushi23_21, Sushi23_271, Targaryen_18, Targaryen_269, Teutsch_19, Teutsch_266, Tribute_19, Tribute_265, Warpy_23, Warpy_275, Watermoore_20, Watermoore_267, WhereRU_18, WhereRU_267,

Genes that have the "Most Annotated" start but do not call it:
• Daubenski_19,

Genes that do not have the "Most Annotated" start:
• AcciDwight_23, AcciDwight_293, Amabiko_21, Amabiko_285, AngryGiraffe_21, AngryGiraffe_277, Battuta_20, Battuta_277, Birchlyn_17, Birchlyn_277, BoomerJR_21, BoomerJR_276, Bordeaux_20, Bordeaux_277, Brizzy_19, Brizzy_277, CeilingFan_19, CeilingFan_285, Elmer_19, Elmer_286, Enygma_18, Enygma_286, Genie2_21, Genie2_276, Gibbi_22, Gibbi_293, IchabodCrane_19, IchabodCrane_272, JimJam_20, JimJam_288, Jollison_21, Jollison_278, Karimac_20, Karimac_278, KentuckyRacer_19, KentuckyRacer_287, LukeCage_19, LukeCage_282, MindFlayer_19, MindFlayer_271, Mugiwara_18, Mugiwara_285, PumpkinSpice_20, PumpkinSpice_284, Quaran19_20, Quaran19_281, Rikishi_21, Rikishi_282, SaltySpitoon_20, SaltySpitoon_280, Sollertia_21, Sollertia_277, Spelly_20, Spelly_286, Spilled_19, Spilled_287, Stanimal_21, Stanimal_276, StarPlatinum_19, StarPlatinum_289, Starbow_20, Starbow_277, TomSawyer_20, TomSawyer_285, Tomas_21, Tomas_277, Wipeout_19, Wipeout_273, Wofford_19, Wofford_277, Yaboi_20, Yaboi_281,

Summary by start number:

Start 4:
• Found in 42 of 166 (25.3%) of genes in pham
• Manual Annotations of this start: 4 of 156
• Called 9.5% of time when present
• Phage (with cluster) where this start called: IchabodCrane_19 (BE2), IchabodCrane_272 (BE2), JimJam_288 (BE2), MindFlayer_271 (BE2),

Start 5:
• Found in 4 of 166 (2.4%) of genes in pham
• Manual Annotations of this start: 1 of 156
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Daubenski_19 (BE1),

Start 7:
• Found in 94 of 166 (56.6%) of genes in pham
• Manual Annotations of this start: 87 of 156
• Called 98.9% of time when present
• Phage (with cluster) where this start called: Anedea_17 (BE1), Anedea_282 (BE1), Angela_19 (BE1), Angela_276 (BE1), Bartholomune_19 (BE1), Bartholomune_269 (BE1), BlueOtter_20 (BE1), BlueOtter_268 (BE1), Bmoc_18 (BE1), Bmoc_274 (BE1), Braelyn_19 (BE1), Braelyn_264 (BE1), Cadmus_18 (BE1), Cadmus_266 (BE1), Coogler_20 (BE1), Coogler_266 (BE1), Cross_20 (BE1), Cross_268 (BE1), Cursive_18 (BE1), Cursive_272 (BE1), Daubenski_263 (BE1), Davielle_18 (BE1), Davielle_267 (BE1), EGole_19 (BE1), EGole_273 (BE1), Eliot67_19 (BE1), Eliot67_270 (BE1), Evy_20 (BE1), Evy_258 (BE1), FreddyDRoo_19 (BE1), FreddyDRoo_272 (BE1), HangryHippo_20 (BE1), HangryHippo_268 (BE1), Jay2Jay_23 (BE1), Jay2Jay_278 (BE1), Larnav_20 (BE1), Larnav_270 (BE1), Leo04_20 (BE1), Leo04_271 (BE1), Liandry_19 (BE1), Liandry_268 (BE1), LilMartin_19 (BE1), LilMartin_271 (BE1), LilSaint_24 (BE1), LilSaint_286 (BE1), Lululemon_19 (BE1), Lululemon_266 (BE1), Marsus_19 (BE1), Marsus_276 (BE1), Mildred21_19 (BE1), Mildred21_282 (BE1), MulchMansion_19 (BE1), MulchMansion_275 (BE1), Navo_18 (BE1), Navo_260 (BE1), NootNoot_19 (BE1), NootNoot_264 (BE1), PacManQ_19 (BE1), PacManQ_266 (BE1), Paradiddles_19 (BE1), Paradiddles_260 (BE1), Peebs_20 (BE1), Peebs_267 (BE1), Pepperwood_21 (BE1), Pepperwood_270 (BE1), Persimmon_18 (BE1), Persimmon_269 (BE1), PinkiePie_19 (BE1), PinkiePie_269 (BE1), Riptide_18 (BE1), Riptide_273 (BE1), Samisti12_18 (BE1), Samisti12_269 (BE1), Scheme_21 (BE1), Scheme_274 (BE1), Shuckle_19 (BE1), Shuckle_267 (BE1), Squillium_19 (BE1), Squillium_271 (BE1), Sushi23_21 (BE1), Sushi23_271 (BE1), Targaryen_18 (BE1), Targaryen_269 (BE1), Teutsch_19 (BE1), Teutsch_266 (BE1), Tribute_19 (BE1), Tribute_265 (BE1), Warpy_23 (BE1), Warpy_275 (BE1), Watermoore_20 (BE1), Watermoore_267 (BE1), WhereRU_18 (BE1), WhereRU_267 (BE1),

Start 8:
• Found in 2 of 166 (1.2%) of genes in pham
• Manual Annotations of this start: 2 of 156
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Tomas_21 (BE2), Tomas_277 (BE2),

Start 9:
• Found in 70 of 166 (42.2%) of genes in pham

• Manual Annotations of this start: 62 of 156
• Called 94.3% of time when present
• Phage (with cluster) where this start called: AcciDwight_23 (BE2), AcciDwight_293 (BE2), Amabiko_21 (BE2), Amabiko_285 (BE2), AngryGiraffe_21 (BE2), AngryGiraffe_277 (BE2), Battuta_20 (BE2), Battuta_277 (BE2), Birchlyn_17 (BE2), Birchlyn_277 (BE2), BoomerJR_21 (BE2), BoomerJR_276 (BE2), Bordeaux_20 (BE2), Bordeaux_277 (BE2), Brizzy_19 (BE2), Brizzy_277 (BE2), CeilingFan_19 (BE2), CeilingFan_285 (BE2), Elmer_19 (BE2), Elmer_286 (BE2), Enygma_18 (BE2), Enygma_286 (BE2), Genie2_21 (BE2), Genie2_276 (BE2), Gibbi_22 (BE2), Gibbi_293 (BE2), JimJam_20 (BE2), Jollison_21 (BE2), Jollison_278 (BE2), Karimac_20 (BE2), Karimac_278 (BE2), KentuckyRacer_19 (BE2), KentuckyRacer_287 (BE2), LukeCage_19 (BE2), LukeCage_282 (BE2), MindFlayer_19 (BE2), Mugiwara_18 (BE2), Mugiwara_285 (BE2), PumpkinSpice_20 (BE2), PumpkinSpice_284 (BE2), Quaran19_20 (BE2), Quaran19_281 (BE2), Rikishi_21 (BE2), Rikishi_282 (BE2), SaltySpitoon_20 (BE2), SaltySpitoon_280 (BE2), Sollertia_21 (BE2), Sollertia_277 (BE2), Spelly_20 (BE2), Spelly_286 (BE2), Spilled_19 (BE2), Spilled_287 (BE2), Stanimal_21 (BE2), Stanimal_276 (BE2), StarPlatinum_19 (BE2), StarPlatinum_289 (BE2), Starbow_20 (BE2), Starbow_277 (BE2), TomSawyer_20 (BE2), TomSawyer_285 (BE2), Wipeout_19 (BE2), Wipeout_273 (BE2), Wofford_19 (BE2), Wofford_277 (BE2), Yaboi_20 (BE2), Yaboi_281 (BE2),

Summary by clusters:

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

Info for manual annotations of cluster BE1:
•Start number 5 was manually annotated 1 time for cluster BE1.
•Start number 7 was manually annotated 87 times for cluster BE1.

Info for manual annotations of cluster BE2:
•Start number 4 was manually annotated 4 times for cluster BE2.
•Start number 8 was manually annotated 2 times for cluster BE2.
•Start number 9 was manually annotated 62 times for cluster BE2.

Gene Information:
Gene: AcciDwight_293 Start: 130125, Stop: 129829, Start Num: 9
Candidate Starts for AcciDwight_293:
(Start: 4 @130167 has 4 MA's), (Start: 9 @130125 has 62 MA's), (16, 130008),

Gene: AcciDwight_23 Start: 10029, Stop: 9733, Start Num: 9
Candidate Starts for AcciDwight_23:
(Start: 4 @10071 has 4 MA's), (Start: 9 @10029 has 62 MA's), (16, 9912),

Gene: Amabiko_285 Start: 128855, Stop: 128559, Start Num: 9
Candidate Starts for Amabiko_285:
(Start: 4 @128897 has 4 MA's), (Start: 9 @128855 has 62 MA's), (16, 128738),

Gene: Amabiko_21 Start: 10029, Stop: 9733, Start Num: 9
Candidate Starts for Amabiko_21:

(Start: 4 @10071 has 4 MA's), (Start: 9 @10029 has 62 MA's), (16, 9912),

Gene: Anedea_282 Start: 131812, Stop: 131501, Start Num: 7
Candidate Starts for Anedea_282:
(Start: 7 @131812 has 87 MA's), (20, 131587),

Gene: Anedea_17 Start: 8763, Stop: 8452, Start Num: 7
Candidate Starts for Anedea_17:
(Start: 7 @8763 has 87 MA's), (20, 8538),

Gene: Angela_276 Start: 132020, Stop: 131709, Start Num: 7
Candidate Starts for Angela_276:
(Start: 7 @132020 has 87 MA's), (10, 132002), (20, 131795),

Gene: Angela_19 Start: 9617, Stop: 9306, Start Num: 7
Candidate Starts for Angela_19:
(Start: 7 @9617 has 87 MA's), (10, 9599), (20, 9392),

Gene: AngryGiraffe_277 Start: 128272, Stop: 127973, Start Num: 9
Candidate Starts for AngryGiraffe_277:
(6, 128308), (Start: 9 @128272 has 62 MA's), (16, 128152),

Gene: AngryGiraffe_21 Start: 9929, Stop: 9630, Start Num: 9
Candidate Starts for AngryGiraffe_21:
(6, 9965), (Start: 9 @9929 has 62 MA's), (16, 9809),

Gene: Bartholomune_19 Start: 9197, Stop: 8883, Start Num: 7
Candidate Starts for Bartholomune_19:
(Start: 7 @9197 has 87 MA's), (10, 9176), (11, 9146), (20, 8969), (22, 8945),

Gene: Bartholomune_269 Start: 130296, Stop: 129982, Start Num: 7
Candidate Starts for Bartholomune_269:
(Start: 7 @130296 has 87 MA's), (10, 130275), (11, 130245), (20, 130068), (22, 130044),

Gene: Battuta_277 Start: 128184, Stop: 127888, Start Num: 9
Candidate Starts for Battuta_277:
(Start: 4 @128226 has 4 MA's), (Start: 9 @128184 has 62 MA's), (16, 128067),

Gene: Battuta_20 Start: 10029, Stop: 9733, Start Num: 9
Candidate Starts for Battuta_20:
(Start: 4 @10071 has 4 MA's), (Start: 9 @10029 has 62 MA's), (16, 9912),

Gene: Birchlyn_277 Start: 123973, Stop: 123677, Start Num: 9
Candidate Starts for Birchlyn_277:
(Start: 4 @124015 has 4 MA's), (Start: 9 @123973 has 62 MA's), (16, 123856),

Gene: Birchlyn_17 Start: 7882, Stop: 7586, Start Num: 9
Candidate Starts for Birchlyn_17:
(Start: 4 @7924 has 4 MA's), (Start: 9 @7882 has 62 MA's), (16, 7765),

Gene: BlueOtter_268 Start: 130554, Stop: 130243, Start Num: 7
Candidate Starts for BlueOtter_268:

(Start: 7 @130554 has 87 MA's), (10, 130536), (11, 130506), (13, 130491), (20, 130329), (21, 130317), (22, 130305),

Gene: BlueOtter_20 Start: 9467, Stop: 9156, Start Num: 7
Candidate Starts for BlueOtter_20:
(Start: 7 @9467 has 87 MA's), (10, 9449), (11, 9419), (13, 9404), (20, 9242), (21, 9230), (22, 9218),

Gene: Bmoc_274 Start: 131246, Stop: 130935, Start Num: 7
Candidate Starts for Bmoc_274:
(Start: 7 @131246 has 87 MA's), (20, 131021),

Gene: Bmoc_18 Start: 9424, Stop: 9113, Start Num: 7
Candidate Starts for Bmoc_18:
(Start: 7 @9424 has 87 MA's), (20, 9199),

Gene: BoomerJR_21 Start: 9929, Stop: 9630, Start Num: 9
Candidate Starts for BoomerJR_21:
(6, 9965), (Start: 9 @9929 has 62 MA's), (16, 9809),

Gene: BoomerJR_276 Start: 128717, Stop: 128418, Start Num: 9
Candidate Starts for BoomerJR_276:
(6, 128753), (Start: 9 @128717 has 62 MA's), (16, 128597),

Gene: Bordeaux_277 Start: 128767, Stop: 128471, Start Num: 9
Candidate Starts for Bordeaux_277:
(Start: 4 @128809 has 4 MA's), (Start: 9 @128767 has 62 MA's), (16, 128650),

Gene: Bordeaux_20 Start: 10029, Stop: 9733, Start Num: 9
Candidate Starts for Bordeaux_20:
(Start: 4 @10071 has 4 MA's), (Start: 9 @10029 has 62 MA's), (16, 9912),

Gene: Braelyn_19 Start: 9240, Stop: 8926, Start Num: 7
Candidate Starts for Braelyn_19:
(Start: 7 @9240 has 87 MA's), (10, 9219), (11, 9189), (20, 9012), (22, 8988),

Gene: Braelyn_264 Start: 129650, Stop: 129336, Start Num: 7
Candidate Starts for Braelyn_264:
(Start: 7 @129650 has 87 MA's), (10, 129629), (11, 129599), (20, 129422), (22, 129398),

Gene: Brizzy_19 Start: 9618, Stop: 9322, Start Num: 9
Candidate Starts for Brizzy_19:
(Start: 4 @9660 has 4 MA's), (Start: 9 @9618 has 62 MA's), (16, 9501),

Gene: Brizzy_277 Start: 128886, Stop: 128590, Start Num: 9
Candidate Starts for Brizzy_277:
(Start: 4 @128928 has 4 MA's), (Start: 9 @128886 has 62 MA's), (16, 128769),

Gene: Cadmus_266 Start: 131600, Stop: 131289, Start Num: 7
Candidate Starts for Cadmus_266:
(2, 131705), (3, 131696), (Start: 5 @131636 has 1 MA's), (Start: 7 @131600 has 87 MA's), (10, 131582), (11, 131552), (20, 131375), (22, 131351),

Gene: Cadmus_18 Start: 9119, Stop: 8808, Start Num: 7

Candidate Starts for Cadmus_18:
(2, 9224), (3, 9215), (Start: 5 @9155 has 1 MA's), (Start: 7 @9119 has 87 MA's), (10, 9101), (11, 9071), (20, 8894), (22, 8870),

Gene: CeilingFan_285 Start: 130247, Stop: 129951, Start Num: 9
Candidate Starts for CeilingFan_285:
(6, 130283), (Start: 9 @130247 has 62 MA's), (16, 130130),

Gene: CeilingFan_19 Start: 9640, Stop: 9344, Start Num: 9
Candidate Starts for CeilingFan_19:
(6, 9676), (Start: 9 @9640 has 62 MA's), (16, 9523),

Gene: Coogler_266 Start: 130979, Stop: 130668, Start Num: 7
Candidate Starts for Coogler_266:
(Start: 7 @130979 has 87 MA's), (10, 130961), (11, 130931), (13, 130916), (21, 130742), (22, 130730),

Gene: Coogler_20 Start: 9467, Stop: 9156, Start Num: 7
Candidate Starts for Coogler_20:
(Start: 7 @9467 has 87 MA's), (10, 9449), (11, 9419), (13, 9404), (21, 9230), (22, 9218),

Gene: Cross_20 Start: 9468, Stop: 9157, Start Num: 7
Candidate Starts for Cross_20:
(Start: 7 @9468 has 87 MA's), (10, 9450), (11, 9420), (13, 9405), (20, 9243), (21, 9231), (22, 9219),

Gene: Cross_268 Start: 131200, Stop: 130889, Start Num: 7
Candidate Starts for Cross_268:
(Start: 7 @131200 has 87 MA's), (10, 131182), (11, 131152), (13, 131137), (20, 130975), (21, 130963), (22, 130951),

Gene: Cursive_18 Start: 8285, Stop: 7974, Start Num: 7
Candidate Starts for Cursive_18:
(Start: 7 @8285 has 87 MA's), (10, 8267), (11, 8237), (13, 8222), (20, 8060), (21, 8048), (22, 8036),

Gene: Cursive_272 Start: 130294, Stop: 129983, Start Num: 7
Candidate Starts for Cursive_272:
(Start: 7 @130294 has 87 MA's), (10, 130276), (11, 130246), (13, 130231), (20, 130069), (21, 130057), (22, 130045),

Gene: Daubenski_19 Start: 9153, Stop: 8806, Start Num: 5
Candidate Starts for Daubenski_19:
(2, 9222), (3, 9213), (Start: 5 @9153 has 1 MA's), (Start: 7 @9117 has 87 MA's), (10, 9099), (11, 9069), (20, 8892), (22, 8868),

Gene: Daubenski_263 Start: 131493, Stop: 131182, Start Num: 7
Candidate Starts for Daubenski_263:
(2, 131598), (3, 131589), (Start: 5 @131529 has 1 MA's), (Start: 7 @131493 has 87 MA's), (10, 131475), (11, 131445), (20, 131268), (22, 131244),

Gene: Davielle_18 Start: 9026, Stop: 8712, Start Num: 7
Candidate Starts for Davielle_18:
(Start: 7 @9026 has 87 MA's), (10, 9005), (11, 8975), (20, 8798), (22, 8774),

Gene: Davielle_267 Start: 130186, Stop: 129872, Start Num: 7

Candidate Starts for Davielle_267:
(Start: 7 @130186 has 87 MA's), (10, 130165), (11, 130135), (20, 129958), (22, 129934),

Gene: EGole_273 Start: 134070, Stop: 133759, Start Num: 7
Candidate Starts for EGole_273:
(Start: 7 @134070 has 87 MA's), (10, 134052), (11, 134022), (13, 134007), (20, 133845), (21, 133833), (22, 133821),

Gene: EGole_19 Start: 9758, Stop: 9447, Start Num: 7
Candidate Starts for EGole_19:
(Start: 7 @9758 has 87 MA's), (10, 9740), (11, 9710), (13, 9695), (20, 9533), (21, 9521), (22, 9509),

Gene: Eliot67_270 Start: 130011, Stop: 129697, Start Num: 7
Candidate Starts for Eliot67_270:
(Start: 7 @130011 has 87 MA's), (10, 129990), (11, 129960), (20, 129783), (22, 129759),

Gene: Eliot67_19 Start: 9197, Stop: 8883, Start Num: 7
Candidate Starts for Eliot67_19:
(Start: 7 @9197 has 87 MA's), (10, 9176), (11, 9146), (20, 8969), (22, 8945),

Gene: Elmer_286 Start: 131352, Stop: 131071, Start Num: 9
Candidate Starts for Elmer_286:
(6, 131388), (Start: 9 @131352 has 62 MA's), (16, 131250), (18, 131238), (19, 131169),

Gene: Elmer_19 Start: 8984, Stop: 8703, Start Num: 9
Candidate Starts for Elmer_19:
(6, 9020), (Start: 9 @8984 has 62 MA's), (16, 8882), (18, 8870), (19, 8801),

Gene: Enygma_286 Start: 131635, Stop: 131339, Start Num: 9
Candidate Starts for Enygma_286:
(Start: 9 @131635 has 62 MA's), (16, 131518), (17, 131512), (18, 131506),

Gene: Enygma_18 Start: 9211, Stop: 8915, Start Num: 9
Candidate Starts for Enygma_18:
(Start: 9 @9211 has 62 MA's), (16, 9094), (17, 9088), (18, 9082),

Gene: Evy_20 Start: 9664, Stop: 9350, Start Num: 7
Candidate Starts for Evy_20:
(Start: 7 @9664 has 87 MA's), (10, 9643), (11, 9613), (20, 9436), (22, 9412),

Gene: Evy_258 Start: 131393, Stop: 131079, Start Num: 7
Candidate Starts for Evy_258:
(Start: 7 @131393 has 87 MA's), (10, 131372), (11, 131342), (20, 131165), (22, 131141),

Gene: FreddyDRoo_19 Start: 9197, Stop: 8883, Start Num: 7
Candidate Starts for FreddyDRoo_19:
(Start: 7 @9197 has 87 MA's), (10, 9176), (11, 9146), (20, 8969), (22, 8945),

Gene: FreddyDRoo_272 Start: 130011, Stop: 129697, Start Num: 7
Candidate Starts for FreddyDRoo_272:
(Start: 7 @130011 has 87 MA's), (10, 129990), (11, 129960), (20, 129783), (22, 129759),

Gene: Genie2_21 Start: 9929, Stop: 9630, Start Num: 9

Candidate Starts for Genie2_21:
(6, 9965), (Start: 9 @9929 has 62 MA's), (16, 9809),

Gene: Genie2_276 Start: 128830, Stop: 128531, Start Num: 9
Candidate Starts for Genie2_276:
(6, 128866), (Start: 9 @128830 has 62 MA's), (16, 128710),

Gene: Gibbi_293 Start: 129740, Stop: 129444, Start Num: 9
Candidate Starts for Gibbi_293:
(Start: 4 @129782 has 4 MA's), (Start: 9 @129740 has 62 MA's), (16, 129623),

Gene: Gibbi_22 Start: 9640, Stop: 9344, Start Num: 9
Candidate Starts for Gibbi_22:
(Start: 4 @9682 has 4 MA's), (Start: 9 @9640 has 62 MA's), (16, 9523),

Gene: HangryHippo_268 Start: 130554, Stop: 130243, Start Num: 7
Candidate Starts for HangryHippo_268:
(Start: 7 @130554 has 87 MA's), (10, 130536), (11, 130506), (13, 130491), (20, 130329), (21, 130317), (22, 130305),

Gene: HangryHippo_20 Start: 9467, Stop: 9156, Start Num: 7
Candidate Starts for HangryHippo_20:
(Start: 7 @9467 has 87 MA's), (10, 9449), (11, 9419), (13, 9404), (20, 9242), (21, 9230), (22, 9218),

Gene: IchabodCrane_19 Start: 9679, Stop: 9341, Start Num: 4
Candidate Starts for IchabodCrane_19:
(Start: 4 @9679 has 4 MA's), (Start: 9 @9637 has 62 MA's), (16, 9520),

Gene: IchabodCrane_272 Start: 128222, Stop: 127884, Start Num: 4
Candidate Starts for IchabodCrane_272:
(Start: 4 @128222 has 4 MA's), (Start: 9 @128180 has 62 MA's), (16, 128063),

Gene: Jay2Jay_278 Start: 131946, Stop: 131632, Start Num: 7
Candidate Starts for Jay2Jay_278:
(Start: 7 @131946 has 87 MA's), (10, 131925), (11, 131895), (20, 131718), (22, 131694),

Gene: Jay2Jay_23 Start: 9853, Stop: 9539, Start Num: 7
Candidate Starts for Jay2Jay_23:
(Start: 7 @9853 has 87 MA's), (10, 9832), (11, 9802), (20, 9625), (22, 9601),

Gene: JimJam_20 Start: 10028, Stop: 9732, Start Num: 9
Candidate Starts for JimJam_20:
(Start: 4 @10070 has 4 MA's), (Start: 9 @10028 has 62 MA's), (16, 9911),

Gene: JimJam_288 Start: 131606, Stop: 131268, Start Num: 4
Candidate Starts for JimJam_288:
(Start: 4 @131606 has 4 MA's), (Start: 9 @131564 has 62 MA's), (16, 131447),

Gene: Jollison_21 Start: 10029, Stop: 9733, Start Num: 9
Candidate Starts for Jollison_21:
(Start: 4 @10071 has 4 MA's), (Start: 9 @10029 has 62 MA's), (16, 9912),

Gene: Jollison_278 Start: 128704, Stop: 128408, Start Num: 9

Candidate Starts for Jollison_278:
(Start: 4 @128746 has 4 MA's), (Start: 9 @128704 has 62 MA's), (16, 128587),

Gene: Karimac_278 Start: 129350, Stop: 129054, Start Num: 9
Candidate Starts for Karimac_278:
(Start: 4 @129392 has 4 MA's), (Start: 9 @129350 has 62 MA's), (16, 129233),

Gene: Karimac_20 Start: 10031, Stop: 9735, Start Num: 9
Candidate Starts for Karimac_20:
(Start: 4 @10073 has 4 MA's), (Start: 9 @10031 has 62 MA's), (16, 9914),

Gene: KentuckyRacer_287 Start: 131092, Stop: 130796, Start Num: 9
Candidate Starts for KentuckyRacer_287:
(6, 131128), (Start: 9 @131092 has 62 MA's), (16, 130975),

Gene: KentuckyRacer_19 Start: 9641, Stop: 9345, Start Num: 9
Candidate Starts for KentuckyRacer_19:
(6, 9677), (Start: 9 @9641 has 62 MA's), (16, 9524),

Gene: Larnav_270 Start: 131472, Stop: 131161, Start Num: 7
Candidate Starts for Larnav_270:
(Start: 7 @131472 has 87 MA's), (10, 131454), (11, 131424), (13, 131409), (21, 131235), (22, 131223),

Gene: Larnav_20 Start: 9467, Stop: 9156, Start Num: 7
Candidate Starts for Larnav_20:
(Start: 7 @9467 has 87 MA's), (10, 9449), (11, 9419), (13, 9404), (21, 9230), (22, 9218),

Gene: Leo04_271 Start: 131584, Stop: 131273, Start Num: 7
Candidate Starts for Leo04_271:
(Start: 7 @131584 has 87 MA's), (10, 131566), (11, 131536), (13, 131521), (20, 131359), (21, 131347), (22, 131335),

Gene: Leo04_20 Start: 9466, Stop: 9155, Start Num: 7
Candidate Starts for Leo04_20:
(Start: 7 @9466 has 87 MA's), (10, 9448), (11, 9418), (13, 9403), (20, 9241), (21, 9229), (22, 9217),

Gene: Liandry_268 Start: 130717, Stop: 130403, Start Num: 7
Candidate Starts for Liandry_268:
(Start: 7 @130717 has 87 MA's), (10, 130696), (11, 130666), (20, 130489), (22, 130465),

Gene: Liandry_19 Start: 9196, Stop: 8882, Start Num: 7
Candidate Starts for Liandry_19:
(Start: 7 @9196 has 87 MA's), (10, 9175), (11, 9145), (20, 8968), (22, 8944),

Gene: LilMartin_271 Start: 130909, Stop: 130598, Start Num: 7
Candidate Starts for LilMartin_271:
(Start: 7 @130909 has 87 MA's), (10, 130891), (20, 130684),

Gene: LilMartin_19 Start: 9565, Stop: 9254, Start Num: 7
Candidate Starts for LilMartin_19:
(Start: 7 @9565 has 87 MA's), (10, 9547), (20, 9340),

Gene: LilSaint_24 Start: 9305, Stop: 8994, Start Num: 7

Candidate Starts for LilSaint_24:
(Start: 7 @9305 has 87 MA's), (20, 9080),

Gene: LilSaint_286 Start: 131155, Stop: 130844, Start Num: 7
Candidate Starts for LilSaint_286:
(Start: 7 @131155 has 87 MA's), (20, 130930),

Gene: LukeCage_19 Start: 9593, Stop: 9297, Start Num: 9
Candidate Starts for LukeCage_19:
(6, 9629), (Start: 9 @9593 has 62 MA's), (16, 9476),

Gene: LukeCage_282 Start: 130497, Stop: 130201, Start Num: 9
Candidate Starts for LukeCage_282:
(6, 130533), (Start: 9 @130497 has 62 MA's), (16, 130380),

Gene: Lululemon_266 Start: 129739, Stop: 129428, Start Num: 7
Candidate Starts for Lululemon_266:
(Start: 7 @129739 has 87 MA's), (10, 129721), (11, 129691), (13, 129676), (20, 129514), (21, 129502), (22, 129490),

Gene: Lululemon_19 Start: 8847, Stop: 8536, Start Num: 7
Candidate Starts for Lululemon_19:
(Start: 7 @8847 has 87 MA's), (10, 8829), (11, 8799), (13, 8784), (20, 8622), (21, 8610), (22, 8598),

Gene: Marsus_19 Start: 9421, Stop: 9110, Start Num: 7
Candidate Starts for Marsus_19:
(Start: 7 @9421 has 87 MA's), (10, 9403), (15, 9298), (20, 9196), (21, 9184), (22, 9172),

Gene: Marsus_276 Start: 133125, Stop: 132814, Start Num: 7
Candidate Starts for Marsus_276:
(Start: 7 @133125 has 87 MA's), (10, 133107), (15, 133002), (20, 132900), (21, 132888), (22, 132876),

Gene: Mildred21_282 Start: 130401, Stop: 130087, Start Num: 7
Candidate Starts for Mildred21_282:
(Start: 7 @130401 has 87 MA's), (10, 130383), (15, 130278), (20, 130173), (22, 130149),

Gene: Mildred21_19 Start: 9243, Stop: 8929, Start Num: 7
Candidate Starts for Mildred21_19:
(Start: 7 @9243 has 87 MA's), (10, 9225), (15, 9120), (20, 9015), (22, 8991),

Gene: MindFlayer_19 Start: 9639, Stop: 9343, Start Num: 9
Candidate Starts for MindFlayer_19:
(Start: 4 @9681 has 4 MA's), (Start: 9 @9639 has 62 MA's), (16, 9522),

Gene: MindFlayer_271 Start: 127741, Stop: 127403, Start Num: 4
Candidate Starts for MindFlayer_271:
(Start: 4 @127741 has 4 MA's), (Start: 9 @127699 has 62 MA's), (16, 127582),

Gene: Mugiwara_285 Start: 130623, Stop: 130327, Start Num: 9
Candidate Starts for Mugiwara_285:
(Start: 9 @130623 has 62 MA's), (16, 130506),

Gene: Mugiwara_18 Start: 9238, Stop: 8942, Start Num: 9

Candidate Starts for Mugiwara_18:
(Start: 9 @9238 has 62 MA's), (16, 9121),

Gene: MulchMansion_19 Start: 9565, Stop: 9254, Start Num: 7
Candidate Starts for MulchMansion_19:
(Start: 7 @9565 has 87 MA's), (10, 9547), (20, 9340),

Gene: MulchMansion_275 Start: 132543, Stop: 132232, Start Num: 7
Candidate Starts for MulchMansion_275:
(Start: 7 @132543 has 87 MA's), (10, 132525), (20, 132318),

Gene: Navo_260 Start: 128620, Stop: 128306, Start Num: 7
Candidate Starts for Navo_260:
(Start: 7 @128620 has 87 MA's), (10, 128599), (11, 128569), (20, 128392), (22, 128368),

Gene: Navo_18 Start: 8995, Stop: 8681, Start Num: 7
Candidate Starts for Navo_18:
(Start: 7 @8995 has 87 MA's), (10, 8974), (11, 8944), (20, 8767), (22, 8743),

Gene: NootNoot_264 Start: 129506, Stop: 129192, Start Num: 7
Candidate Starts for NootNoot_264:
(Start: 7 @129506 has 87 MA's), (10, 129485), (11, 129455), (20, 129278), (22, 129254),

Gene: NootNoot_19 Start: 9207, Stop: 8893, Start Num: 7
Candidate Starts for NootNoot_19:
(Start: 7 @9207 has 87 MA's), (10, 9186), (11, 9156), (20, 8979), (22, 8955),

Gene: PacManQ_19 Start: 8847, Stop: 8536, Start Num: 7
Candidate Starts for PacManQ_19:
(Start: 7 @8847 has 87 MA's), (10, 8829), (11, 8799), (13, 8784), (20, 8622), (21, 8610), (22, 8598),

Gene: PacManQ_266 Start: 129739, Stop: 129428, Start Num: 7
Candidate Starts for PacManQ_266:
(Start: 7 @129739 has 87 MA's), (10, 129721), (11, 129691), (13, 129676), (20, 129514), (21, 129502), (22, 129490),

Gene: Paradiddles_19 Start: 9195, Stop: 8881, Start Num: 7
Candidate Starts for Paradiddles_19:
(Start: 7 @9195 has 87 MA's), (10, 9174), (11, 9144), (13, 9129), (20, 8967),

Gene: Paradiddles_260 Start: 131903, Stop: 131589, Start Num: 7
Candidate Starts for Paradiddles_260:
(Start: 7 @131903 has 87 MA's), (10, 131882), (11, 131852), (13, 131837), (20, 131675),

Gene: Peebs_267 Start: 131440, Stop: 131129, Start Num: 7
Candidate Starts for Peebs_267:
(Start: 7 @131440 has 87 MA's), (10, 131422), (11, 131392), (20, 131215), (21, 131203), (22, 131191),

Gene: Peebs_20 Start: 9465, Stop: 9154, Start Num: 7
Candidate Starts for Peebs_20:
(Start: 7 @9465 has 87 MA's), (10, 9447), (11, 9417), (20, 9240), (21, 9228), (22, 9216),

Gene: Pepperwood_21 Start: 9620, Stop: 9309, Start Num: 7

Candidate Starts for Pepperwood_21:
(Start: 7 @9620 has 87 MA's), (10, 9602), (11, 9572), (20, 9395), (21, 9383), (22, 9371),

Gene: Pepperwood_270 Start: 131405, Stop: 131094, Start Num: 7
Candidate Starts for Pepperwood_270:
(Start: 7 @131405 has 87 MA's), (10, 131387), (11, 131357), (20, 131180), (21, 131168), (22, 131156),

Gene: Persimmon_269 Start: 129837, Stop: 129523, Start Num: 7
Candidate Starts for Persimmon_269:
(Start: 7 @129837 has 87 MA's), (10, 129816), (11, 129786), (20, 129609), (22, 129585),

Gene: Persimmon_18 Start: 9026, Stop: 8712, Start Num: 7
Candidate Starts for Persimmon_18:
(Start: 7 @9026 has 87 MA's), (10, 9005), (11, 8975), (20, 8798), (22, 8774),

Gene: PinkiePie_19 Start: 9197, Stop: 8883, Start Num: 7
Candidate Starts for PinkiePie_19:
(Start: 7 @9197 has 87 MA's), (10, 9176), (11, 9146), (20, 8969), (22, 8945),

Gene: PinkiePie_269 Start: 130718, Stop: 130404, Start Num: 7
Candidate Starts for PinkiePie_269:
(Start: 7 @130718 has 87 MA's), (10, 130697), (11, 130667), (20, 130490), (22, 130466),

Gene: PumpkinSpice_20 Start: 10029, Stop: 9733, Start Num: 9
Candidate Starts for PumpkinSpice_20:
(Start: 4 @10071 has 4 MA's), (Start: 9 @10029 has 62 MA's), (16, 9912),

Gene: PumpkinSpice_284 Start: 129921, Stop: 129625, Start Num: 9
Candidate Starts for PumpkinSpice_284:
(Start: 4 @129963 has 4 MA's), (Start: 9 @129921 has 62 MA's), (16, 129804),

Gene: Quaran19_281 Start: 129211, Stop: 128915, Start Num: 9
Candidate Starts for Quaran19_281:
(Start: 4 @129253 has 4 MA's), (Start: 9 @129211 has 62 MA's), (16, 129094),

Gene: Quaran19_20 Start: 10029, Stop: 9733, Start Num: 9
Candidate Starts for Quaran19_20:
(Start: 4 @10071 has 4 MA's), (Start: 9 @10029 has 62 MA's), (16, 9912),

Gene: Rikishi_21 Start: 9749, Stop: 9453, Start Num: 9
Candidate Starts for Rikishi_21:
(1, 9860), (Start: 4 @9791 has 4 MA's), (Start: 9 @9749 has 62 MA's), (16, 9632),

Gene: Rikishi_282 Start: 129822, Stop: 129526, Start Num: 9
Candidate Starts for Rikishi_282:
(1, 129933), (Start: 4 @129864 has 4 MA's), (Start: 9 @129822 has 62 MA's), (16, 129705),

Gene: Riptide_18 Start: 9043, Stop: 8732, Start Num: 7
Candidate Starts for Riptide_18:
(Start: 7 @9043 has 87 MA's), (20, 8818),

Gene: Riptide_273 Start: 130495, Stop: 130184, Start Num: 7
Candidate Starts for Riptide_273:

(Start: 7 @130495 has 87 MA's), (20, 130270),

Gene: SaltySpitoon_20 Start: 10029, Stop: 9733, Start Num: 9
Candidate Starts for SaltySpitoon_20:
(Start: 4 @10071 has 4 MA's), (Start: 9 @10029 has 62 MA's), (16, 9912),

Gene: SaltySpitoon_280 Start: 128293, Stop: 127997, Start Num: 9
Candidate Starts for SaltySpitoon_280:
(Start: 4 @128335 has 4 MA's), (Start: 9 @128293 has 62 MA's), (16, 128176),

Gene: Samisti12_269 Start: 132112, Stop: 131801, Start Num: 7
Candidate Starts for Samisti12_269:
(Start: 7 @132112 has 87 MA's), (10, 132094), (11, 132064), (20, 131887), (21, 131875), (22, 131863),

Gene: Samisti12_18 Start: 9068, Stop: 8757, Start Num: 7
Candidate Starts for Samisti12_18:
(Start: 7 @9068 has 87 MA's), (10, 9050), (11, 9020), (20, 8843), (21, 8831), (22, 8819),

Gene: Scheme_274 Start: 132815, Stop: 132504, Start Num: 7
Candidate Starts for Scheme_274:
(Start: 7 @132815 has 87 MA's), (10, 132797), (11, 132767), (20, 132590), (21, 132578), (22, 132566),

Gene: Scheme_21 Start: 9620, Stop: 9309, Start Num: 7
Candidate Starts for Scheme_21:
(Start: 7 @9620 has 87 MA's), (10, 9602), (11, 9572), (20, 9395), (21, 9383), (22, 9371),

Gene: Shuckle_19 Start: 9603, Stop: 9289, Start Num: 7
Candidate Starts for Shuckle_19:
(Start: 7 @9603 has 87 MA's), (11, 9552), (12, 9546), (20, 9375),

Gene: Shuckle_267 Start: 132236, Stop: 131922, Start Num: 7
Candidate Starts for Shuckle_267:
(Start: 7 @132236 has 87 MA's), (11, 132185), (12, 132179), (20, 132008),

Gene: Sollertia_277 Start: 128819, Stop: 128520, Start Num: 9
Candidate Starts for Sollertia_277:
(6, 128855), (Start: 9 @128819 has 62 MA's), (16, 128699),

Gene: Sollertia_21 Start: 9929, Stop: 9630, Start Num: 9
Candidate Starts for Sollertia_21:
(6, 9965), (Start: 9 @9929 has 62 MA's), (16, 9809),

Gene: Spelly_286 Start: 128833, Stop: 128537, Start Num: 9
Candidate Starts for Spelly_286:
(Start: 4 @128875 has 4 MA's), (Start: 9 @128833 has 62 MA's), (16, 128716),

Gene: Spelly_20 Start: 10029, Stop: 9733, Start Num: 9
Candidate Starts for Spelly_20:
(Start: 4 @10071 has 4 MA's), (Start: 9 @10029 has 62 MA's), (16, 9912),

Gene: Spilled_19 Start: 9639, Stop: 9343, Start Num: 9
Candidate Starts for Spilled_19:
(Start: 4 @9681 has 4 MA's), (Start: 9 @9639 has 62 MA's), (16, 9522),

Gene: Spilled_287 Start: 130108, Stop: 129812, Start Num: 9
Candidate Starts for Spilled_287:
(Start: 4 @130150 has 4 MA's), (Start: 9 @130108 has 62 MA's), (16, 129991),

Gene: Squillium_271 Start: 130720, Stop: 130406, Start Num: 7
Candidate Starts for Squillium_271:
(Start: 7 @130720 has 87 MA's), (10, 130699), (11, 130669), (20, 130492), (22, 130468),

Gene: Squillium_19 Start: 9196, Stop: 8882, Start Num: 7
Candidate Starts for Squillium_19:
(Start: 7 @9196 has 87 MA's), (10, 9175), (11, 9145), (20, 8968), (22, 8944),

Gene: Stanimal_276 Start: 129203, Stop: 128904, Start Num: 9
Candidate Starts for Stanimal_276:
(6, 129239), (Start: 9 @129203 has 62 MA's), (16, 129083),

Gene: Stanimal_21 Start: 9929, Stop: 9630, Start Num: 9
Candidate Starts for Stanimal_21:
(6, 9965), (Start: 9 @9929 has 62 MA's), (16, 9809),

Gene: StarPlatinum_19 Start: 9656, Stop: 9360, Start Num: 9
Candidate Starts for StarPlatinum_19:
(6, 9692), (Start: 9 @9656 has 62 MA's), (16, 9539),

Gene: StarPlatinum_289 Start: 131343, Stop: 131047, Start Num: 9
Candidate Starts for StarPlatinum_289:
(6, 131379), (Start: 9 @131343 has 62 MA's), (16, 131226),

Gene: Starbow_20 Start: 10029, Stop: 9733, Start Num: 9
Candidate Starts for Starbow_20:
(Start: 4 @10071 has 4 MA's), (Start: 9 @10029 has 62 MA's), (16, 9912),

Gene: Starbow_277 Start: 128877, Stop: 128581, Start Num: 9
Candidate Starts for Starbow_277:
(Start: 4 @128919 has 4 MA's), (Start: 9 @128877 has 62 MA's), (16, 128760),

Gene: Sushi23_21 Start: 9467, Stop: 9156, Start Num: 7
Candidate Starts for Sushi23_21:
(Start: 7 @9467 has 87 MA's), (10, 9449), (11, 9419), (20, 9242), (21, 9230), (22, 9218),

Gene: Sushi23_271 Start: 132310, Stop: 131999, Start Num: 7
Candidate Starts for Sushi23_271:
(Start: 7 @132310 has 87 MA's), (10, 132292), (11, 132262), (20, 132085), (21, 132073), (22, 132061),

Gene: Targaryen_269 Start: 133336, Stop: 133022, Start Num: 7
Candidate Starts for Targaryen_269:
(Start: 7 @133336 has 87 MA's), (10, 133315), (11, 133285), (20, 133108), (22, 133084),

Gene: Targaryen_18 Start: 9660, Stop: 9346, Start Num: 7
Candidate Starts for Targaryen_18:
(Start: 7 @9660 has 87 MA's), (10, 9639), (11, 9609), (20, 9432), (22, 9408),

Gene: Teutsch_266 Start: 131278, Stop: 130967, Start Num: 7
Candidate Starts for Teutsch_266:
(Start: 7 @131278 has 87 MA's), (10, 131260), (11, 131230), (20, 131053), (21, 131041), (22, 131029),

Gene: Teutsch_19 Start: 9069, Stop: 8758, Start Num: 7
Candidate Starts for Teutsch_19:
(Start: 7 @9069 has 87 MA's), (10, 9051), (11, 9021), (20, 8844), (21, 8832), (22, 8820),

Gene: TomSawyer_285 Start: 131401, Stop: 131105, Start Num: 9
Candidate Starts for TomSawyer_285:
(Start: 4 @131443 has 4 MA's), (Start: 9 @131401 has 62 MA's), (16, 131284),

Gene: TomSawyer_20 Start: 9622, Stop: 9326, Start Num: 9
Candidate Starts for TomSawyer_20:
(Start: 4 @9664 has 4 MA's), (Start: 9 @9622 has 62 MA's), (16, 9505),

Gene: Tomas_21 Start: 10251, Stop: 9961, Start Num: 8
Candidate Starts for Tomas_21:
(Start: 8 @10251 has 2 MA's), (14, 10197), (17, 10134), (20, 10050), (23, 10020), (24, 10017),

Gene: Tomas_277 Start: 131958, Stop: 131668, Start Num: 8
Candidate Starts for Tomas_277:
(Start: 8 @131958 has 2 MA's), (14, 131904), (17, 131841), (20, 131757), (23, 131727), (24, 131724),

Gene: Tribute_19 Start: 9320, Stop: 9009, Start Num: 7
Candidate Starts for Tribute_19:
(Start: 7 @9320 has 87 MA's), (10, 9302), (11, 9272), (20, 9095), (21, 9083), (22, 9071),

Gene: Tribute_265 Start: 131864, Stop: 131553, Start Num: 7
Candidate Starts for Tribute_265:
(Start: 7 @131864 has 87 MA's), (10, 131846), (11, 131816), (20, 131639), (21, 131627), (22, 131615),

Gene: Warpy_275 Start: 131412, Stop: 131098, Start Num: 7
Candidate Starts for Warpy_275:
(Start: 7 @131412 has 87 MA's), (10, 131391), (11, 131361), (20, 131184), (22, 131160),

Gene: Warpy_23 Start: 9874, Stop: 9560, Start Num: 7
Candidate Starts for Warpy_23:
(Start: 7 @9874 has 87 MA's), (10, 9853), (11, 9823), (20, 9646), (22, 9622),

Gene: Watermoore_267 Start: 132064, Stop: 131753, Start Num: 7
Candidate Starts for Watermoore_267:
(Start: 7 @132064 has 87 MA's), (10, 132046), (11, 132016), (13, 132001), (20, 131839), (21, 131827), (22, 131815),

Gene: Watermoore_20 Start: 9468, Stop: 9157, Start Num: 7
Candidate Starts for Watermoore_20:
(Start: 7 @9468 has 87 MA's), (10, 9450), (11, 9420), (13, 9405), (20, 9243), (21, 9231), (22, 9219),

Gene: WhereRU_18 Start: 9026, Stop: 8712, Start Num: 7
Candidate Starts for WhereRU_18:
(Start: 7 @9026 has 87 MA's), (10, 9005), (11, 8975), (20, 8798), (22, 8774),

Gene: WhereRU_267 Start: 130171, Stop: 129857, Start Num: 7
Candidate Starts for WhereRU_267:
(Start: 7 @130171 has 87 MA's), (10, 130150), (11, 130120), (20, 129943), (22, 129919),

Gene: Wipeout_273 Start: 130375, Stop: 130079, Start Num: 9
Candidate Starts for Wipeout_273:
(Start: 4 @130417 has 4 MA's), (Start: 9 @130375 has 62 MA's), (16, 130258),

Gene: Wipeout_19 Start: 9644, Stop: 9348, Start Num: 9
Candidate Starts for Wipeout_19:
(Start: 4 @9686 has 4 MA's), (Start: 9 @9644 has 62 MA's), (16, 9527),

Gene: Wofford_277 Start: 130782, Stop: 130501, Start Num: 9
Candidate Starts for Wofford_277:
(6, 130818), (Start: 9 @130782 has 62 MA's), (16, 130680), (18, 130668), (19, 130599),

Gene: Wofford_19 Start: 8989, Stop: 8708, Start Num: 9
Candidate Starts for Wofford_19:
(6, 9025), (Start: 9 @8989 has 62 MA's), (16, 8887), (18, 8875), (19, 8806),

Gene: Yaboi_20 Start: 9929, Stop: 9630, Start Num: 9
Candidate Starts for Yaboi_20:
(6, 9965), (Start: 9 @9929 has 62 MA's), (16, 9809),

Gene: Yaboi_281 Start: 128747, Stop: 128448, Start Num: 9
Candidate Starts for Yaboi_281:
(6, 128783), (Start: 9 @128747 has 62 MA's), (16, 128627),