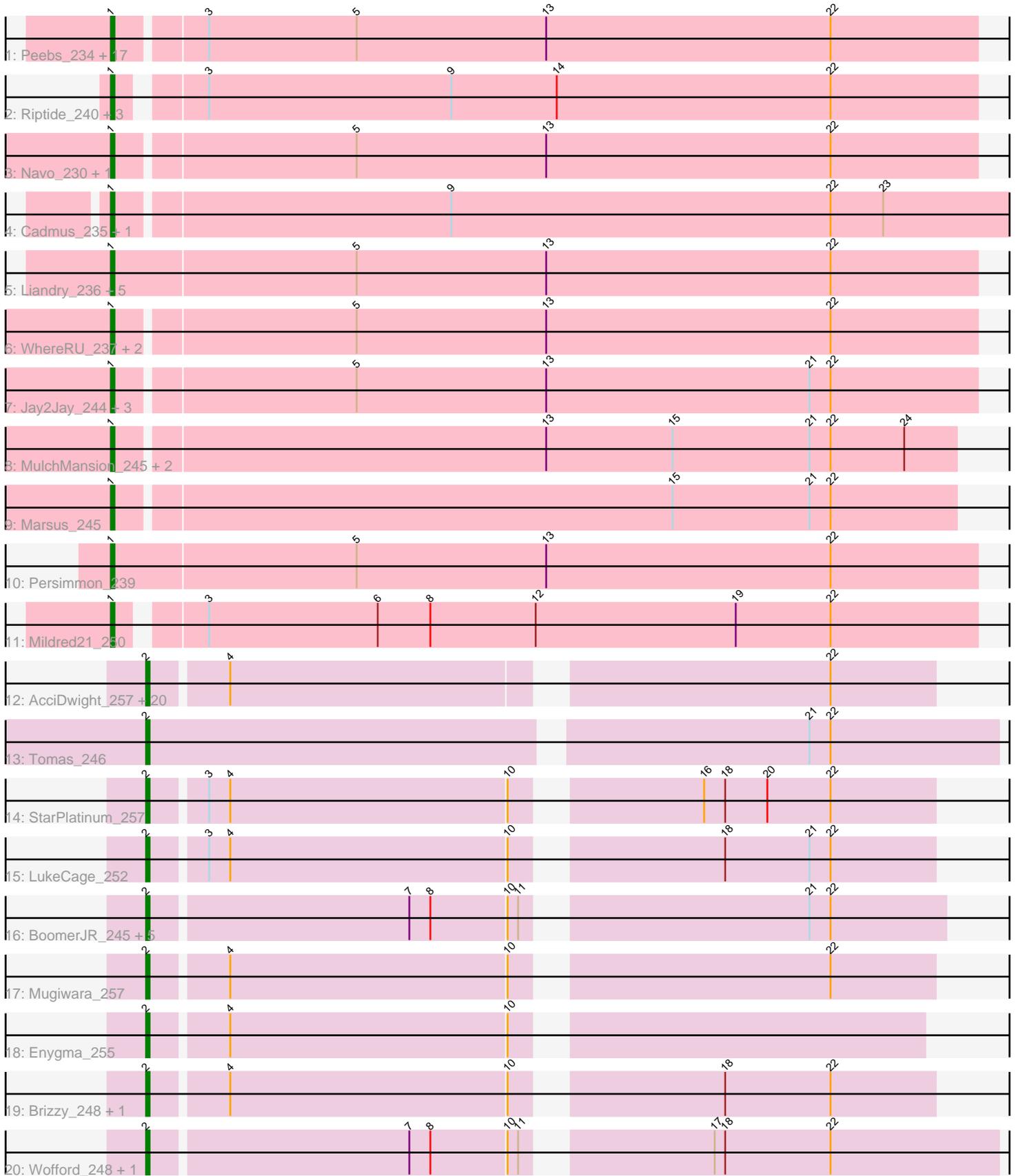


Pham 287826



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 287826 Report

This analysis was run 03/28/26 on database version 641.

Pham number 287826 has 81 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Peebs_234, HangryHippo_236, Coogler_235, Leo04_239, BlueOtter_236, Pepperwood_238, Deutsch_237, EGole_244, PacManQ_235, Cursive_241, Sushi23_239, Shuckle_237, Scheme_241, Lululemon_235, Samisti12_240, Watermoore_236, Tribute_234, Larnav_238
- Track 2 : Riptide_240, Anedea_251, LilSaint_241, Bmoc_244
- Track 3 : Navo_230, Braelyn_232
- Track 4 : Cadmus_235, Daubenski_230
- Track 5 : Liandry_236, Eliot67_238, PinkiePie_237, FreddyDRoo_240, Squillium_239, Paradiddles_228
- Track 6 : WhereRU_237, Bartholomune_237, Davielle_237
- Track 7 : Jay2Jay_244, Evy_227, Targaryen_237, Warpy_241
- Track 8 : MulchMansion_245, LilMartin_241, Angela_245
- Track 9 : Marsus_245
- Track 10 : Persimmon_239
- Track 11 : Mildred21_250
- Track 12 : AcciDwight_257, Rikishi_250, IchabodCrane_243, Spelly_254, Amabiko_253, Gibbi_257, CeilingFan_253, JimJam_256, Jollison_246, Spilled_256, Quaran19_249, TomSawyer_253, Starbow_246, Battuta_247, Birchlyn_248, SaltySpitoon_249, KentuckyRacer_255, Bordeaux_247, PumpkinSpice_252, MindFlayer_242, Wipeout_239
- Track 13 : Tomas_246
- Track 14 : StarPlatinum_257
- Track 15 : LukeCage_252
- Track 16 : BoomerJR_245, Genie2_245, AngryGiraffe_245, Stanimal_245, Sollertia_246, Yaboi_250
- Track 17 : Mugiwara_257
- Track 18 : Enygma_255
- Track 19 : Brizzy_248, Karimac_249
- Track 20 : Wofford_248, Elmer_257

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

The start number called the most often in the published annotations is 1, it was called in 43 of the 77 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Anedea_251, Angela_245, Bartholomune_237, BlueOtter_236, Bmoc_244, Braelyn_232, Cadmus_235, Coogler_235, Cursive_241, Daubenski_230, Davielle_237, EGole_244, Eliot67_238, Evy_227, FreddyDRoo_240, HangryHippo_236, Jay2Jay_244, Larnav_238, Leo04_239, Liandry_236, LilMartin_241, LilSaint_241, Lululemon_235, Marsus_245, Mildred21_250, MulchMansion_245, Navo_230, PacManQ_235, Paradiddles_228, Peebs_234, Pepperwood_238, Persimmon_239, PinkiePie_237, Riptide_240, Samisti12_240, Scheme_241, Shuckle_237, Squillium_239, Sushi23_239, Targaryen_237, Teutsch_237, Tribute_234, Warpy_241, Watermoore_236, WhereRU_237,

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

-

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

- AcciDwight_257, Amabiko_253, AngryGiraffe_245, Battuta_247, Birchlyn_248, BoomerJR_245, Bordeaux_247, Brizzy_248, CeilingFan_253, Elmer_257, Enygma_255, Genie2_245, Gibbi_257, IchabodCrane_243, JimJam_256, Jollison_246, Karimac_249, KentuckyRacer_255, LukeCage_252, MindFlayer_242, Mugiwara_257, PumpkinSpice_252, Quarant19_249, Rikishi_250, SaltySpittoon_249, Sollertia_246, Spelly_254, Spilled_256, Stanimal_245, StarPlatinum_257, Starbow_246, TomSawyer_253, Tomas_246, Wipeout_239, Wofford_248, Yaboi_250,

Summary by start number:

Start 1:

- Found in 45 of 81 (55.6%) of genes in pham
- Manual Annotations of this start: 43 of 77
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anedea_251 (BE1), Angela_245 (BE1), Bartholomune_237 (BE1), BlueOtter_236 (BE1), Bmoc_244 (BE1), Braelyn_232 (BE1), Cadmus_235 (BE1), Coogler_235 (BE1), Cursive_241 (BE1), Daubenski_230 (BE1), Davielle_237 (BE1), EGole_244 (BE1), Eliot67_238 (BE1), Evy_227 (BE1), FreddyDRoo_240 (BE1), HangryHippo_236 (BE1), Jay2Jay_244 (BE1), Larnav_238 (BE1), Leo04_239 (BE1), Liandry_236 (BE1), LilMartin_241 (BE1), LilSaint_241 (BE1), Lululemon_235 (BE1), Marsus_245 (BE1), Mildred21_250 (BE1), MulchMansion_245 (BE1), Navo_230 (BE1), PacManQ_235 (BE1), Paradiddles_228 (BE1), Peebs_234 (BE1), Pepperwood_238 (BE1), Persimmon_239 (BE1), PinkiePie_237 (BE1), Riptide_240 (BE1), Samisti12_240 (BE1), Scheme_241 (BE1), Shuckle_237 (BE1), Squillium_239 (BE1), Sushi23_239 (BE1), Targaryen_237 (BE1), Teutsch_237 (BE1), Tribute_234 (BE1), Warpy_241 (BE1), Watermoore_236 (BE1), WhereRU_237 (BE1),

Start 2:

- Found in 36 of 81 (44.4%) of genes in pham
- Manual Annotations of this start: 34 of 77
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AcciDwight_257 (BE2), Amabiko_253 (BE2), AngryGiraffe_245 (BE2), Battuta_247 (BE2), Birchlyn_248 (BE2), BoomerJR_245 (BE2), Bordeaux_247 (BE2), Brizzy_248 (BE2), CeilingFan_253 (BE2), Elmer_257 (BE2), Enygma_255 (BE2), Genie2_245 (BE2), Gibbi_257 (BE2),

IchabodCrane_243 (BE2), JimJam_256 (BE2), Jollison_246 (BE2), Karimac_249 (BE2), KentuckyRacer_255 (BE2), LukeCage_252 (BE2), MindFlayer_242 (BE2), Mugiwara_257 (BE2), PumpkinSpice_252 (BE2), Quaran19_249 (BE2), Rikishi_250 (BE2), SaltySpittoon_249 (BE2), Sollertia_246 (BE2), Spelly_254 (BE2), Spilled_256 (BE2), Stanimal_245 (BE2), StarPlatinum_257 (BE2), Starbow_246 (BE2), TomSawyer_253 (BE2), Tomas_246 (BE2), Wipeout_239 (BE2), Wofford_248 (BE2), Yaboi_250 (BE2),

Summary by clusters:

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

Info for manual annotations of cluster BE1:

•Start number 1 was manually annotated 43 times for cluster BE1.

Info for manual annotations of cluster BE2:

•Start number 2 was manually annotated 34 times for cluster BE2.

Gene Information:

Gene: AcciDwight_257 Start: 114990, Stop: 115199, Start Num: 2

Candidate Starts for AcciDwight_257:

(Start: 2 @114990 has 34 MA's), (4, 115011), (22, 115170),

Gene: Amabiko_253 Start: 114808, Stop: 115017, Start Num: 2

Candidate Starts for Amabiko_253:

(Start: 2 @114808 has 34 MA's), (4, 114829), (22, 114988),

Gene: Anedea_251 Start: 118563, Stop: 118802, Start Num: 1

Candidate Starts for Anedea_251:

(Start: 1 @118563 has 43 MA's), (3, 118584), (9, 118653), (14, 118683), (22, 118761),

Gene: Angela_245 Start: 117915, Stop: 118151, Start Num: 1

Candidate Starts for Angela_245:

(Start: 1 @117915 has 43 MA's), (13, 118035), (15, 118071), (21, 118110), (22, 118116), (24, 118137),

Gene: AngryGiraffe_245 Start: 114112, Stop: 114324, Start Num: 2

Candidate Starts for AngryGiraffe_245:

(Start: 2 @114112 has 34 MA's), (7, 114184), (8, 114190), (10, 114211), (11, 114214), (21, 114286), (22, 114292),

Gene: Bartholomune_237 Start: 116567, Stop: 116809, Start Num: 1

Candidate Starts for Bartholomune_237:

(Start: 1 @116567 has 43 MA's), (5, 116633), (13, 116687), (22, 116768),

Gene: Battuta_247 Start: 114123, Stop: 114332, Start Num: 2

Candidate Starts for Battuta_247:

(Start: 2 @114123 has 34 MA's), (4, 114144), (22, 114303),

Gene: Birchlyn_248 Start: 112056, Stop: 112265, Start Num: 2

Candidate Starts for Birchlyn_248:

(Start: 2 @112056 has 34 MA's), (4, 112077), (22, 112236),

Gene: BlueOtter_236 Start: 116741, Stop: 116983, Start Num: 1

Candidate Starts for BlueOtter_236:

(Start: 1 @116741 has 43 MA's), (3, 116765), (5, 116807), (13, 116861), (22, 116942),

Gene: Bmoc_244 Start: 117335, Stop: 117577, Start Num: 1

Candidate Starts for Bmoc_244:

(Start: 1 @117335 has 43 MA's), (3, 117359), (9, 117428), (14, 117458), (22, 117536),

Gene: BoomerJR_245 Start: 114545, Stop: 114757, Start Num: 2

Candidate Starts for BoomerJR_245:

(Start: 2 @114545 has 34 MA's), (7, 114617), (8, 114623), (10, 114644), (11, 114647), (21, 114719), (22, 114725),

Gene: Bordeaux_247 Start: 114706, Stop: 114915, Start Num: 2

Candidate Starts for Bordeaux_247:

(Start: 2 @114706 has 34 MA's), (4, 114727), (22, 114886),

Gene: Braelyn_232 Start: 115901, Stop: 116143, Start Num: 1

Candidate Starts for Braelyn_232:

(Start: 1 @115901 has 43 MA's), (5, 115967), (13, 116021), (22, 116102),

Gene: Brizzy_248 Start: 115234, Stop: 115443, Start Num: 2

Candidate Starts for Brizzy_248:

(Start: 2 @115234 has 34 MA's), (4, 115255), (10, 115333), (18, 115384), (22, 115414),

Gene: Cadmus_235 Start: 117844, Stop: 118098, Start Num: 1

Candidate Starts for Cadmus_235:

(Start: 1 @117844 has 43 MA's), (9, 117937), (22, 118045), (23, 118060),

Gene: CeilingFan_253 Start: 115501, Stop: 115710, Start Num: 2

Candidate Starts for CeilingFan_253:

(Start: 2 @115501 has 34 MA's), (4, 115522), (22, 115681),

Gene: Coogler_235 Start: 117166, Stop: 117408, Start Num: 1

Candidate Starts for Coogler_235:

(Start: 1 @117166 has 43 MA's), (3, 117190), (5, 117232), (13, 117286), (22, 117367),

Gene: Cursive_241 Start: 117493, Stop: 117735, Start Num: 1

Candidate Starts for Cursive_241:

(Start: 1 @117493 has 43 MA's), (3, 117517), (5, 117559), (13, 117613), (22, 117694),

Gene: Daubenski_230 Start: 117745, Stop: 117999, Start Num: 1

Candidate Starts for Daubenski_230:

(Start: 1 @117745 has 43 MA's), (9, 117838), (22, 117946), (23, 117961),

Gene: Davielle_237 Start: 116651, Stop: 116893, Start Num: 1

Candidate Starts for Davielle_237:

(Start: 1 @116651 has 43 MA's), (5, 116717), (13, 116771), (22, 116852),

Gene: EGole_244 Start: 119967, Stop: 120209, Start Num: 1

Candidate Starts for EGole_244:

(Start: 1 @119967 has 43 MA's), (3, 119991), (5, 120033), (13, 120087), (22, 120168),

Gene: Eliot67_238 Start: 116248, Stop: 116493, Start Num: 1

Candidate Starts for Eliot67_238:

(Start: 1 @116248 has 43 MA's), (5, 116317), (13, 116371), (22, 116452),

Gene: Elmer_257 Start: 118266, Stop: 118493, Start Num: 2

Candidate Starts for Elmer_257:

(Start: 2 @118266 has 34 MA's), (7, 118338), (8, 118344), (10, 118365), (11, 118368), (17, 118413), (18, 118416), (22, 118446),

Gene: Enygma_255 Start: 117307, Stop: 117513, Start Num: 2

Candidate Starts for Enygma_255:

(Start: 2 @117307 has 34 MA's), (4, 117328), (10, 117406),

Gene: Evy_227 Start: 117420, Stop: 117662, Start Num: 1

Candidate Starts for Evy_227:

(Start: 1 @117420 has 43 MA's), (5, 117486), (13, 117540), (21, 117615), (22, 117621),

Gene: FreddyDRoo_240 Start: 116248, Stop: 116493, Start Num: 1

Candidate Starts for FreddyDRoo_240:

(Start: 1 @116248 has 43 MA's), (5, 116317), (13, 116371), (22, 116452),

Gene: Genie2_245 Start: 114670, Stop: 114882, Start Num: 2

Candidate Starts for Genie2_245:

(Start: 2 @114670 has 34 MA's), (7, 114742), (8, 114748), (10, 114769), (11, 114772), (21, 114844), (22, 114850),

Gene: Gibbi_257 Start: 114994, Stop: 115203, Start Num: 2

Candidate Starts for Gibbi_257:

(Start: 2 @114994 has 34 MA's), (4, 115015), (22, 115174),

Gene: HangryHippo_236 Start: 116741, Stop: 116983, Start Num: 1

Candidate Starts for HangryHippo_236:

(Start: 1 @116741 has 43 MA's), (3, 116765), (5, 116807), (13, 116861), (22, 116942),

Gene: IchabodCrane_243 Start: 114509, Stop: 114718, Start Num: 2

Candidate Starts for IchabodCrane_243:

(Start: 2 @114509 has 34 MA's), (4, 114530), (22, 114689),

Gene: Jay2Jay_244 Start: 117784, Stop: 118026, Start Num: 1

Candidate Starts for Jay2Jay_244:

(Start: 1 @117784 has 43 MA's), (5, 117850), (13, 117904), (21, 117979), (22, 117985),

Gene: JimJam_256 Start: 116430, Stop: 116639, Start Num: 2

Candidate Starts for JimJam_256:

(Start: 2 @116430 has 34 MA's), (4, 116451), (22, 116610),

Gene: Jollison_246 Start: 114640, Stop: 114849, Start Num: 2

Candidate Starts for Jollison_246:

(Start: 2 @114640 has 34 MA's), (4, 114661), (22, 114820),

Gene: Karimac_249 Start: 114825, Stop: 115034, Start Num: 2

Candidate Starts for Karimac_249:

(Start: 2 @114825 has 34 MA's), (4, 114846), (10, 114924), (18, 114975), (22, 115005),

Gene: KentuckyRacer_255 Start: 116345, Stop: 116554, Start Num: 2

Candidate Starts for KentuckyRacer_255:

(Start: 2 @116345 has 34 MA's), (4, 116366), (22, 116525),

Gene: Larnav_238 Start: 117659, Stop: 117901, Start Num: 1

Candidate Starts for Larnav_238:

(Start: 1 @117659 has 43 MA's), (3, 117683), (5, 117725), (13, 117779), (22, 117860),

Gene: Leo04_239 Start: 117772, Stop: 118014, Start Num: 1

Candidate Starts for Leo04_239:

(Start: 1 @117772 has 43 MA's), (3, 117796), (5, 117838), (13, 117892), (22, 117973),

Gene: Liandry_236 Start: 116955, Stop: 117200, Start Num: 1

Candidate Starts for Liandry_236:

(Start: 1 @116955 has 43 MA's), (5, 117024), (13, 117078), (22, 117159),

Gene: LilMartin_241 Start: 116855, Stop: 117091, Start Num: 1

Candidate Starts for LilMartin_241:

(Start: 1 @116855 has 43 MA's), (13, 116975), (15, 117011), (21, 117050), (22, 117056), (24, 117077),

Gene: LilSaint_241 Start: 117365, Stop: 117604, Start Num: 1

Candidate Starts for LilSaint_241:

(Start: 1 @117365 has 43 MA's), (3, 117386), (9, 117455), (14, 117485), (22, 117563),

Gene: LukeCage_252 Start: 116670, Stop: 116879, Start Num: 2

Candidate Starts for LukeCage_252:

(Start: 2 @116670 has 34 MA's), (3, 116685), (4, 116691), (10, 116769), (18, 116820), (21, 116844), (22, 116850),

Gene: Lululemon_235 Start: 116546, Stop: 116788, Start Num: 1

Candidate Starts for Lululemon_235:

(Start: 1 @116546 has 43 MA's), (3, 116570), (5, 116612), (13, 116666), (22, 116747),

Gene: Marsus_245 Start: 119206, Stop: 119442, Start Num: 1

Candidate Starts for Marsus_245:

(Start: 1 @119206 has 43 MA's), (15, 119362), (21, 119401), (22, 119407),

Gene: Mildred21_250 Start: 116453, Stop: 116692, Start Num: 1

Candidate Starts for Mildred21_250:

(Start: 1 @116453 has 43 MA's), (3, 116474), (6, 116522), (8, 116537), (12, 116567), (19, 116624), (22, 116651),

Gene: MindFlayer_242 Start: 114025, Stop: 114234, Start Num: 2

Candidate Starts for MindFlayer_242:

(Start: 2 @114025 has 34 MA's), (4, 114046), (22, 114205),

Gene: Mugiwara_257 Start: 117376, Stop: 117585, Start Num: 2

Candidate Starts for Mugiwara_257:

(Start: 2 @117376 has 34 MA's), (4, 117397), (10, 117475), (22, 117556),

Gene: MulchMansion_245 Start: 118489, Stop: 118725, Start Num: 1
Candidate Starts for MulchMansion_245:
(Start: 1 @118489 has 43 MA's), (13, 118609), (15, 118645), (21, 118684), (22, 118690), (24, 118711),

Gene: Navo_230 Start: 115105, Stop: 115347, Start Num: 1
Candidate Starts for Navo_230:
(Start: 1 @115105 has 43 MA's), (5, 115171), (13, 115225), (22, 115306),

Gene: PacManQ_235 Start: 116546, Stop: 116788, Start Num: 1
Candidate Starts for PacManQ_235:
(Start: 1 @116546 has 43 MA's), (3, 116570), (5, 116612), (13, 116666), (22, 116747),

Gene: Paradiddles_228 Start: 118175, Stop: 118417, Start Num: 1
Candidate Starts for Paradiddles_228:
(Start: 1 @118175 has 43 MA's), (5, 118241), (13, 118295), (22, 118376),

Gene: Peebs_234 Start: 117630, Stop: 117872, Start Num: 1
Candidate Starts for Peebs_234:
(Start: 1 @117630 has 43 MA's), (3, 117654), (5, 117696), (13, 117750), (22, 117831),

Gene: Pepperwood_238 Start: 117438, Stop: 117680, Start Num: 1
Candidate Starts for Pepperwood_238:
(Start: 1 @117438 has 43 MA's), (3, 117462), (5, 117504), (13, 117558), (22, 117639),

Gene: Persimmon_239 Start: 116299, Stop: 116544, Start Num: 1
Candidate Starts for Persimmon_239:
(Start: 1 @116299 has 43 MA's), (5, 116368), (13, 116422), (22, 116503),

Gene: PinkiePie_237 Start: 116955, Stop: 117200, Start Num: 1
Candidate Starts for PinkiePie_237:
(Start: 1 @116955 has 43 MA's), (5, 117024), (13, 117078), (22, 117159),

Gene: PumpkinSpice_252 Start: 115246, Stop: 115455, Start Num: 2
Candidate Starts for PumpkinSpice_252:
(Start: 2 @115246 has 34 MA's), (4, 115267), (22, 115426),

Gene: Quaran19_249 Start: 114687, Stop: 114896, Start Num: 2
Candidate Starts for Quaran19_249:
(Start: 2 @114687 has 34 MA's), (4, 114708), (22, 114867),

Gene: Rikishi_250 Start: 114968, Stop: 115177, Start Num: 2
Candidate Starts for Rikishi_250:
(Start: 2 @114968 has 34 MA's), (4, 114989), (22, 115148),

Gene: Riptide_240 Start: 116310, Stop: 116549, Start Num: 1
Candidate Starts for Riptide_240:
(Start: 1 @116310 has 43 MA's), (3, 116331), (9, 116400), (14, 116430), (22, 116508),

Gene: SaltySpittoon_249 Start: 114229, Stop: 114438, Start Num: 2
Candidate Starts for SaltySpittoon_249:
(Start: 2 @114229 has 34 MA's), (4, 114250), (22, 114409),

Gene: Samisti12_240 Start: 118695, Stop: 118937, Start Num: 1

Candidate Starts for Samisti12_240:

(Start: 1 @118695 has 43 MA's), (3, 118719), (5, 118761), (13, 118815), (22, 118896),

Gene: Scheme_241 Start: 118677, Stop: 118919, Start Num: 1

Candidate Starts for Scheme_241:

(Start: 1 @118677 has 43 MA's), (3, 118701), (5, 118743), (13, 118797), (22, 118878),

Gene: Shuckle_237 Start: 118132, Stop: 118374, Start Num: 1

Candidate Starts for Shuckle_237:

(Start: 1 @118132 has 43 MA's), (3, 118156), (5, 118198), (13, 118252), (22, 118333),

Gene: Sollertia_246 Start: 114659, Stop: 114871, Start Num: 2

Candidate Starts for Sollertia_246:

(Start: 2 @114659 has 34 MA's), (7, 114731), (8, 114737), (10, 114758), (11, 114761), (21, 114833), (22, 114839),

Gene: Spelly_254 Start: 114158, Stop: 114367, Start Num: 2

Candidate Starts for Spelly_254:

(Start: 2 @114158 has 34 MA's), (4, 114179), (22, 114338),

Gene: Spilled_256 Start: 115362, Stop: 115571, Start Num: 2

Candidate Starts for Spilled_256:

(Start: 2 @115362 has 34 MA's), (4, 115383), (22, 115542),

Gene: Squillium_239 Start: 116957, Stop: 117202, Start Num: 1

Candidate Starts for Squillium_239:

(Start: 1 @116957 has 43 MA's), (5, 117026), (13, 117080), (22, 117161),

Gene: Stanimal_245 Start: 115031, Stop: 115243, Start Num: 2

Candidate Starts for Stanimal_245:

(Start: 2 @115031 has 34 MA's), (7, 115103), (8, 115109), (10, 115130), (11, 115133), (21, 115205), (22, 115211),

Gene: StarPlatinum_257 Start: 117446, Stop: 117655, Start Num: 2

Candidate Starts for StarPlatinum_257:

(Start: 2 @117446 has 34 MA's), (3, 117461), (4, 117467), (10, 117545), (16, 117590), (18, 117596), (20, 117608), (22, 117626),

Gene: Starbow_246 Start: 114202, Stop: 114411, Start Num: 2

Candidate Starts for Starbow_246:

(Start: 2 @114202 has 34 MA's), (4, 114223), (22, 114382),

Gene: Sushi23_239 Start: 118496, Stop: 118738, Start Num: 1

Candidate Starts for Sushi23_239:

(Start: 1 @118496 has 43 MA's), (3, 118520), (5, 118562), (13, 118616), (22, 118697),

Gene: Targaryen_237 Start: 118528, Stop: 118770, Start Num: 1

Candidate Starts for Targaryen_237:

(Start: 1 @118528 has 43 MA's), (5, 118594), (13, 118648), (21, 118723), (22, 118729),

Gene: Teutsch_237 Start: 117861, Stop: 118103, Start Num: 1

Candidate Starts for Teutsch_237:

(Start: 1 @117861 has 43 MA's), (3, 117885), (5, 117927), (13, 117981), (22, 118062),

Gene: TomSawyer_253 Start: 116673, Stop: 116882, Start Num: 2
Candidate Starts for TomSawyer_253:

(Start: 2 @116673 has 34 MA's), (4, 116694), (22, 116853),

Gene: Tomas_246 Start: 117740, Stop: 117973, Start Num: 2
Candidate Starts for Tomas_246:

(Start: 2 @117740 has 34 MA's), (21, 117920), (22, 117926),

Gene: Tribute_234 Start: 118026, Stop: 118268, Start Num: 1
Candidate Starts for Tribute_234:

(Start: 1 @118026 has 43 MA's), (3, 118050), (5, 118092), (13, 118146), (22, 118227),

Gene: Warpy_241 Start: 117229, Stop: 117471, Start Num: 1
Candidate Starts for Warpy_241:

(Start: 1 @117229 has 43 MA's), (5, 117295), (13, 117349), (21, 117424), (22, 117430),

Gene: Watermoore_236 Start: 118250, Stop: 118492, Start Num: 1
Candidate Starts for Watermoore_236:

(Start: 1 @118250 has 43 MA's), (3, 118274), (5, 118316), (13, 118370), (22, 118451),

Gene: WhereRU_237 Start: 116636, Stop: 116878, Start Num: 1
Candidate Starts for WhereRU_237:

(Start: 1 @116636 has 43 MA's), (5, 116702), (13, 116756), (22, 116837),

Gene: Wipeout_239 Start: 115625, Stop: 115834, Start Num: 2
Candidate Starts for Wipeout_239:

(Start: 2 @115625 has 34 MA's), (4, 115646), (22, 115805),

Gene: Wofford_248 Start: 117708, Stop: 117935, Start Num: 2
Candidate Starts for Wofford_248:

(Start: 2 @117708 has 34 MA's), (7, 117780), (8, 117786), (10, 117807), (11, 117810), (17, 117855),
(18, 117858), (22, 117888),

Gene: Yaboi_250 Start: 114594, Stop: 114806, Start Num: 2
Candidate Starts for Yaboi_250:

(Start: 2 @114594 has 34 MA's), (7, 114666), (8, 114672), (10, 114693), (11, 114696), (21, 114768),
(22, 114774),