

Pham 306382



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 306382 Report

This analysis was run 06/20/26 on database version 651.

Pham number 306382 has 83 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Cadmus_229, Daubenski_225
- Track 2 : Persimmon_234, Shuckle_230, Navo_225, WhereRU_230, Braelyn_227, PynkPanther_243, Eliot67_233, Liandry_231, PinkiePie_231, Davielle_230, FreddyDRoo_235, Squillium_234, NootNoot_228, Bartholomune_231
- Track 3 : HangryHippo_229, Lululemon_228, ArianaSWT_242, Larnav_231, Cursive_234, Watermoore_230, Peebs_228, Sushi23_232, Tribute_227, Coogler_228, Teutsch_230, PacManQ_228, BlueOtter_229, Leo04_231, Scheme_234, Pepperwood_231, Cross_230
- Track 4 : Bmoc_236
- Track 5 : Jay2Jay_237, Evy_221, Warpy_234
- Track 6 : Marsus_235
- Track 7 : Angela_236, LilMartin_232, MulchMansion_236
- Track 8 : LilSaint_233
- Track 9 : Mildred21_243
- Track 10 : Targaryen_231
- Track 11 : Samisti12_235
- Track 12 : Paradiddles_223
- Track 13 : EGole_235
- Track 14 : Riptide_232
- Track 15 : AcciDwight_256, Rikishi_249, IchabodCrane_242, Gibbi_256, Quaran19_248, TomSawyer_252, JimJam_255, Amabiko_252, PumpkinSpice_251, CeilingFan_252, KentuckyRacer_254, SaltySpitoon_248, Daisy123_256, Starbow_245, Spelly_253, Battuta_246, Birchlyn_247, Jollison_245, Wipeout_238, Spilled_255, Bordeaux_246, MindFlayer_241
- Track 16 : StarPlatinum_256
- Track 17 : BoomerJR_244, AngryGiraffe_244, Stanimal_244, Sollertia_245, Yaboi_249, Genie2_244
- Track 18 : Elmer_256, Wofford_247
- Track 19 : Mugiwara_256
- Track 20 : LukeCage_251
- Track 21 : Brizzy_247, Karimac_248

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

The start number called the most often in the published annotations is 11, it was called in 32 of the 76 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AcciDwight_256, Amabiko_252, AngryGiraffe_244, Battuta_246, Birchlyn_247, BoomerJR_244, Bordeaux_246, Brizzy_247, CeilingFan_252, Daisy123_256, Elmer_256, Genie2_244, Gibbi_256, IchabodCrane_242, JimJam_255, Jollison_245, Karimac_248, KentuckyRacer_254, LukeCage_251, MindFlayer_241, Mugiwara_256, PumpkinSpice_251, Quaran19_248, Rikishi_249, SaltySpittoon_248, Sollertia_245, Spelly_253, Spilled_255, Stanimal_244, StarPlatinum_256, Starbow_245, TomSawyer_252, Wipeout_238, Wofford_247, Yaboi_249,

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

- Cadmus_229, Daubenski_225,

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

- Angela_236, ArianaSWT_242, Bartholomune_231, BlueOtter_229, Bmoc_236, Braelyn_227, Coogler_228, Cross_230, Cursive_234, Davielle_230, EGole_235, Eliot67_233, Evy_221, FreddyDRoo_235, HangryHippo_229, Jay2Jay_237, Larnav_231, Leo04_231, Liandry_231, LilMartin_232, LilSaint_233, Lululemon_228, Marsus_235, Mildred21_243, MulchMansion_236, Navo_225, NootNoot_228, PacManQ_228, Paradiddles_223, Peebs_228, Pepperwood_231, Persimmon_234, PinkiePie_231, PynkPanther_243, Riptide_232, Samisti12_235, Scheme_234, Shuckle_230, Squillium_234, Sushi23_232, Targaryen_231, Teutsch_230, Tribute_227, Warpy_234, Watermoore_230, WhereRU_230,

Summary by start number:

Start 7:

- Found in 18 of 83 (21.7%) of genes in pham
- Manual Annotations of this start: 17 of 76
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ArianaSWT_242 (BE1), BlueOtter_229 (BE1), Coogler_228 (BE1), Cross_230 (BE1), Cursive_234 (BE1), EGole_235 (BE1), HangryHippo_229 (BE1), Larnav_231 (BE1), Leo04_231 (BE1), Lululemon_228 (BE1), PacManQ_228 (BE1), Peebs_228 (BE1), Pepperwood_231 (BE1), Scheme_234 (BE1), Sushi23_232 (BE1), Teutsch_230 (BE1), Tribute_227 (BE1), Watermoore_230 (BE1),

Start 8:

- Found in 24 of 83 (28.9%) of genes in pham
- Manual Annotations of this start: 20 of 76
- Called 95.8% of time when present
- Phage (with cluster) where this start called: Bartholomune_231 (BE1), Bmoc_236 (BE1), Braelyn_227 (BE1), Cadmus_229 (BE1), Daubenski_225 (BE1), Davielle_230 (BE1), Eliot67_233 (BE1), Evy_221 (BE1), FreddyDRoo_235 (BE1), Jay2Jay_237 (BE1), Liandry_231 (BE1), Navo_225 (BE1), NootNoot_228 (BE1), Persimmon_234 (BE1), PinkiePie_231 (BE1), PynkPanther_243 (BE1), Riptide_232 (BE1), Samisti12_235 (BE1), Shuckle_230 (BE1), Squillium_234 (BE1), Targaryen_231 (BE1), Warpy_234 (BE1), WhereRU_230 (BE1),

Start 10:

- Found in 8 of 83 (9.6%) of genes in pham

- Manual Annotations of this start: 6 of 76
- Called 75.0% of time when present
- Phage (with cluster) where this start called: Angela_236 (BE1), LilMartin_232 (BE1), LilSaint_233 (BE1), Marsus_235 (BE1), Mildred21_243 (BE1), MulchMansion_236 (BE1),

Start 11:

- Found in 37 of 83 (44.6%) of genes in pham
- Manual Annotations of this start: 32 of 76
- Called 94.6% of time when present
- Phage (with cluster) where this start called: AcciDwight_256 (BE2), Amabiko_252 (BE2), AngryGiraffe_244 (BE2), Battuta_246 (BE2), Birchlyn_247 (BE2), BoomerJR_244 (BE2), Bordeaux_246 (BE2), Brizzy_247 (BE2), CeilingFan_252 (BE2), Daisy123_256 (BE2), Elmer_256 (BE2), Genie2_244 (BE2), Gibbi_256 (BE2), IchabodCrane_242 (BE2), JimJam_255 (BE2), Jollison_245 (BE2), Karimac_248 (BE2), KentuckyRacer_254 (BE2), LukeCage_251 (BE2), MindFlayer_241 (BE2), Mugiwara_256 (BE2), PumpkinSpice_251 (BE2), Quarant19_248 (BE2), Rikishi_249 (BE2), SaltySpittoon_248 (BE2), Sollertia_245 (BE2), Spelly_253 (BE2), Spilled_255 (BE2), Stanimal_244 (BE2), StarPlatinum_256 (BE2), Starbow_245 (BE2), TomSawyer_252 (BE2), Wipeout_238 (BE2), Wofford_247 (BE2), Yaboi_249 (BE2),

Start 17:

- Found in 20 of 83 (24.1%) of genes in pham
- Manual Annotations of this start: 1 of 76
- Called 5.0% of time when present
- Phage (with cluster) where this start called: Paradiddles_223 (BE1),

Summary by clusters:

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

Info for manual annotations of cluster BE1:

- Start number 7 was manually annotated 17 times for cluster BE1.
- Start number 8 was manually annotated 20 times for cluster BE1.
- Start number 10 was manually annotated 6 times for cluster BE1.
- Start number 17 was manually annotated 1 time for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 11 was manually annotated 32 times for cluster BE2.

Gene Information:

Gene: AcciDwight_256 Start: 114754, Stop: 114957, Start Num: 11

Candidate Starts for AcciDwight_256:

(1, 114631), (2, 114646), (3, 114667), (4, 114691), (5, 114703), (9, 114733), (Start: 11 @114754 has 32 MA's), (12, 114763), (16, 114802), (27, 114910), (30, 114940), (32, 114946),

Gene: Amabiko_252 Start: 114572, Stop: 114775, Start Num: 11

Candidate Starts for Amabiko_252:

(1, 114449), (2, 114464), (3, 114485), (4, 114509), (5, 114521), (9, 114551), (Start: 11 @114572 has 32 MA's), (12, 114581), (16, 114620), (27, 114728), (30, 114758), (32, 114764),

Gene: Angela_236 Start: 115493, Stop: 115711, Start Num: 10
Candidate Starts for Angela_236:
(Start: 10 @115493 has 6 MA's), (23, 115616), (27, 115664), (28, 115676), (29, 115685), (31, 115697),

Gene: AngryGiraffe_244 Start: 113876, Stop: 114079, Start Num: 11
Candidate Starts for AngryGiraffe_244:
(2, 113768), (3, 113789), (9, 113855), (Start: 11 @113876 has 32 MA's), (12, 113885), (15, 113915),
(16, 113924), (22, 113987), (26, 114005), (27, 114032), (30, 114062), (32, 114068),

Gene: ArianaSWT_242 Start: 116734, Stop: 116973, Start Num: 7
Candidate Starts for ArianaSWT_242:
(Start: 7 @116734 has 17 MA's), (14, 116800), (23, 116878), (25, 116890), (27, 116926), (28, 116938),

Gene: Bartholomune_231 Start: 114849, Stop: 115082, Start Num: 8
Candidate Starts for Bartholomune_231:
(Start: 8 @114849 has 20 MA's), (13, 114894), (Start: 17 @114939 has 1 MA's), (28, 115047),

Gene: Battuta_246 Start: 113887, Stop: 114090, Start Num: 11
Candidate Starts for Battuta_246:
(1, 113764), (2, 113779), (3, 113800), (4, 113824), (5, 113836), (9, 113866), (Start: 11 @113887 has
32 MA's), (12, 113896), (16, 113935), (27, 114043), (30, 114073), (32, 114079),

Gene: Birchlyn_247 Start: 111820, Stop: 112023, Start Num: 11
Candidate Starts for Birchlyn_247:
(1, 111697), (2, 111712), (3, 111733), (4, 111757), (5, 111769), (9, 111799), (Start: 11 @111820 has
32 MA's), (12, 111829), (16, 111868), (27, 111976), (30, 112006), (32, 112012),

Gene: BlueOtter_229 Start: 114987, Stop: 115226, Start Num: 7
Candidate Starts for BlueOtter_229:
(Start: 7 @114987 has 17 MA's), (14, 115053), (23, 115131), (25, 115143), (27, 115179), (28, 115191),

Gene: Bmoc_236 Start: 115531, Stop: 115764, Start Num: 8
Candidate Starts for Bmoc_236:
(Start: 8 @115531 has 20 MA's), (Start: 10 @115546 has 6 MA's), (18, 115624), (28, 115729),

Gene: BoomerJR_244 Start: 114309, Stop: 114512, Start Num: 11
Candidate Starts for BoomerJR_244:
(2, 114201), (3, 114222), (9, 114288), (Start: 11 @114309 has 32 MA's), (12, 114318), (15, 114348),
(16, 114357), (22, 114420), (26, 114438), (27, 114465), (30, 114495), (32, 114501),

Gene: Bordeaux_246 Start: 114470, Stop: 114673, Start Num: 11
Candidate Starts for Bordeaux_246:
(1, 114347), (2, 114362), (3, 114383), (4, 114407), (5, 114419), (9, 114449), (Start: 11 @114470 has
32 MA's), (12, 114479), (16, 114518), (27, 114626), (30, 114656), (32, 114662),

Gene: Braelyn_227 Start: 114496, Stop: 114729, Start Num: 8
Candidate Starts for Braelyn_227:
(Start: 8 @114496 has 20 MA's), (13, 114541), (Start: 17 @114586 has 1 MA's), (28, 114694),

Gene: Brizzy_247 Start: 114998, Stop: 115201, Start Num: 11
Candidate Starts for Brizzy_247:

(3, 114911), (4, 114935), (5, 114947), (9, 114977), (Start: 11 @114998 has 32 MA's), (12, 115007), (16, 115046), (26, 115127), (27, 115154), (30, 115184), (32, 115190),

Gene: Cadmus_229 Start: 116211, Stop: 116441, Start Num: 8

Candidate Starts for Cadmus_229:

(Start: 8 @116211 has 20 MA's), (Start: 11 @116232 has 32 MA's), (23, 116346), (27, 116394), (28, 116406),

Gene: CeilingFan_252 Start: 115265, Stop: 115468, Start Num: 11

Candidate Starts for CeilingFan_252:

(1, 115142), (2, 115157), (3, 115178), (4, 115202), (5, 115214), (9, 115244), (Start: 11 @115265 has 32 MA's), (12, 115274), (16, 115313), (27, 115421), (30, 115451), (32, 115457),

Gene: Coogler_228 Start: 115412, Stop: 115651, Start Num: 7

Candidate Starts for Coogler_228:

(Start: 7 @115412 has 17 MA's), (14, 115478), (23, 115556), (25, 115568), (27, 115604), (28, 115616),

Gene: Cross_230 Start: 115632, Stop: 115871, Start Num: 7

Candidate Starts for Cross_230:

(Start: 7 @115632 has 17 MA's), (14, 115698), (23, 115776), (25, 115788), (27, 115824), (28, 115836),

Gene: Cursive_234 Start: 115739, Stop: 115978, Start Num: 7

Candidate Starts for Cursive_234:

(Start: 7 @115739 has 17 MA's), (14, 115805), (23, 115883), (25, 115895), (27, 115931), (28, 115943),

Gene: Daisy123_256 Start: 115127, Stop: 115330, Start Num: 11

Candidate Starts for Daisy123_256:

(1, 115004), (2, 115019), (3, 115040), (4, 115064), (5, 115076), (9, 115106), (Start: 11 @115127 has 32 MA's), (12, 115136), (16, 115175), (27, 115283), (30, 115313), (32, 115319),

Gene: Daubenski_225 Start: 116112, Stop: 116342, Start Num: 8

Candidate Starts for Daubenski_225:

(Start: 8 @116112 has 20 MA's), (Start: 11 @116133 has 32 MA's), (23, 116247), (27, 116295), (28, 116307),

Gene: Davielle_230 Start: 114894, Stop: 115127, Start Num: 8

Candidate Starts for Davielle_230:

(Start: 8 @114894 has 20 MA's), (13, 114939), (Start: 17 @114984 has 1 MA's), (28, 115092),

Gene: EGole_235 Start: 117823, Stop: 118062, Start Num: 7

Candidate Starts for EGole_235:

(Start: 7 @117823 has 17 MA's), (14, 117889), (19, 117925), (23, 117967), (25, 117979), (27, 118015), (28, 118027),

Gene: Eliot67_233 Start: 114678, Stop: 114911, Start Num: 8

Candidate Starts for Eliot67_233:

(Start: 8 @114678 has 20 MA's), (13, 114723), (Start: 17 @114768 has 1 MA's), (28, 114876),

Gene: Elmer_256 Start: 118030, Stop: 118233, Start Num: 11

Candidate Starts for Elmer_256:

(3, 117943), (5, 117979), (9, 118009), (Start: 11 @118030 has 32 MA's), (12, 118039), (16, 118078), (22, 118141), (27, 118186), (30, 118216), (32, 118222),

Gene: Evy_221 Start: 115809, Stop: 116042, Start Num: 8
Candidate Starts for Evy_221:
(Start: 8 @115809 has 20 MA's), (13, 115854), (Start: 17 @115899 has 1 MA's), (28, 116007), (33, 116034),

Gene: FreddyDRoo_235 Start: 114678, Stop: 114911, Start Num: 8
Candidate Starts for FreddyDRoo_235:
(Start: 8 @114678 has 20 MA's), (13, 114723), (Start: 17 @114768 has 1 MA's), (28, 114876),

Gene: Genie2_244 Start: 114434, Stop: 114637, Start Num: 11
Candidate Starts for Genie2_244:
(2, 114326), (3, 114347), (9, 114413), (Start: 11 @114434 has 32 MA's), (12, 114443), (15, 114473), (16, 114482), (22, 114545), (26, 114563), (27, 114590), (30, 114620), (32, 114626),

Gene: Gibbi_256 Start: 114758, Stop: 114961, Start Num: 11
Candidate Starts for Gibbi_256:
(1, 114635), (2, 114650), (3, 114671), (4, 114695), (5, 114707), (9, 114737), (Start: 11 @114758 has 32 MA's), (12, 114767), (16, 114806), (27, 114914), (30, 114944), (32, 114950),

Gene: HangryHippo_229 Start: 114987, Stop: 115226, Start Num: 7
Candidate Starts for HangryHippo_229:
(Start: 7 @114987 has 17 MA's), (14, 115053), (23, 115131), (25, 115143), (27, 115179), (28, 115191),

Gene: IchabodCrane_242 Start: 114273, Stop: 114476, Start Num: 11
Candidate Starts for IchabodCrane_242:
(1, 114150), (2, 114165), (3, 114186), (4, 114210), (5, 114222), (9, 114252), (Start: 11 @114273 has 32 MA's), (12, 114282), (16, 114321), (27, 114429), (30, 114459), (32, 114465),

Gene: Jay2Jay_237 Start: 115964, Stop: 116197, Start Num: 8
Candidate Starts for Jay2Jay_237:
(Start: 8 @115964 has 20 MA's), (13, 116009), (Start: 17 @116054 has 1 MA's), (28, 116162), (33, 116189),

Gene: JimJam_255 Start: 116194, Stop: 116397, Start Num: 11
Candidate Starts for JimJam_255:
(1, 116071), (2, 116086), (3, 116107), (4, 116131), (5, 116143), (9, 116173), (Start: 11 @116194 has 32 MA's), (12, 116203), (16, 116242), (27, 116350), (30, 116380), (32, 116386),

Gene: Jollison_245 Start: 114404, Stop: 114607, Start Num: 11
Candidate Starts for Jollison_245:
(1, 114281), (2, 114296), (3, 114317), (4, 114341), (5, 114353), (9, 114383), (Start: 11 @114404 has 32 MA's), (12, 114413), (16, 114452), (27, 114560), (30, 114590), (32, 114596),

Gene: Karimac_248 Start: 114589, Stop: 114792, Start Num: 11
Candidate Starts for Karimac_248:
(3, 114502), (4, 114526), (5, 114538), (9, 114568), (Start: 11 @114589 has 32 MA's), (12, 114598), (16, 114637), (26, 114718), (27, 114745), (30, 114775), (32, 114781),

Gene: KentuckyRacer_254 Start: 116109, Stop: 116312, Start Num: 11
Candidate Starts for KentuckyRacer_254:
(1, 115986), (2, 116001), (3, 116022), (4, 116046), (5, 116058), (9, 116088), (Start: 11 @116109 has 32 MA's), (12, 116118), (16, 116157), (27, 116265), (30, 116295), (32, 116301),

Gene: Larnav_231 Start: 115905, Stop: 116144, Start Num: 7
Candidate Starts for Larnav_231:
(Start: 7 @115905 has 17 MA's), (14, 115971), (23, 116049), (25, 116061), (27, 116097), (28, 116109),

Gene: Leo04_231 Start: 116013, Stop: 116252, Start Num: 7
Candidate Starts for Leo04_231:
(Start: 7 @116013 has 17 MA's), (14, 116079), (23, 116157), (25, 116169), (27, 116205), (28, 116217),

Gene: Liandry_231 Start: 115385, Stop: 115618, Start Num: 8
Candidate Starts for Liandry_231:
(Start: 8 @115385 has 20 MA's), (13, 115430), (Start: 17 @115475 has 1 MA's), (28, 115583),

Gene: LilMartin_232 Start: 114433, Stop: 114651, Start Num: 10
Candidate Starts for LilMartin_232:
(Start: 10 @114433 has 6 MA's), (23, 114556), (27, 114604), (28, 114616), (29, 114625), (31, 114637),

Gene: LilSaint_233 Start: 115454, Stop: 115672, Start Num: 10
Candidate Starts for LilSaint_233:
(Start: 10 @115454 has 6 MA's), (23, 115577), (27, 115625), (28, 115637),

Gene: LukeCage_251 Start: 116434, Stop: 116637, Start Num: 11
Candidate Starts for LukeCage_251:
(1, 116311), (2, 116326), (3, 116347), (4, 116371), (5, 116383), (Start: 11 @116434 has 32 MA's), (12, 116443), (24, 116548), (27, 116590), (30, 116620), (32, 116626),

Gene: Lululemon_228 Start: 114792, Stop: 115031, Start Num: 7
Candidate Starts for Lululemon_228:
(Start: 7 @114792 has 17 MA's), (14, 114858), (23, 114936), (25, 114948), (27, 114984), (28, 114996),

Gene: Marsus_235 Start: 116098, Stop: 116316, Start Num: 10
Candidate Starts for Marsus_235:
(Start: 10 @116098 has 6 MA's), (23, 116221), (27, 116269), (28, 116281), (29, 116290),

Gene: Mildred21_243 Start: 114583, Stop: 114801, Start Num: 10
Candidate Starts for Mildred21_243:
(6, 114547), (Start: 10 @114583 has 6 MA's), (23, 114706), (28, 114766), (30, 114784),

Gene: MindFlayer_241 Start: 113789, Stop: 113992, Start Num: 11
Candidate Starts for MindFlayer_241:
(1, 113666), (2, 113681), (3, 113702), (4, 113726), (5, 113738), (9, 113768), (Start: 11 @113789 has 32 MA's), (12, 113798), (16, 113837), (27, 113945), (30, 113975), (32, 113981),

Gene: Mugiwara_256 Start: 117140, Stop: 117343, Start Num: 11
Candidate Starts for Mugiwara_256:
(2, 117032), (3, 117053), (4, 117077), (5, 117089), (Start: 11 @117140 has 32 MA's), (12, 117149), (16, 117188), (27, 117296), (30, 117326), (32, 117332),

Gene: MulchMansion_236 Start: 116067, Stop: 116285, Start Num: 10
Candidate Starts for MulchMansion_236:
(Start: 10 @116067 has 6 MA's), (23, 116190), (27, 116238), (28, 116250), (29, 116259), (31, 116271),

Gene: Navo_225 Start: 113700, Stop: 113933, Start Num: 8
Candidate Starts for Navo_225:

(Start: 8 @113700 has 20 MA's), (13, 113745), (Start: 17 @113790 has 1 MA's), (28, 113898),

Gene: NootNoot_228 Start: 114230, Stop: 114463, Start Num: 8

Candidate Starts for NootNoot_228:

(Start: 8 @114230 has 20 MA's), (13, 114275), (Start: 17 @114320 has 1 MA's), (28, 114428),

Gene: PacManQ_228 Start: 114792, Stop: 115031, Start Num: 7

Candidate Starts for PacManQ_228:

(Start: 7 @114792 has 17 MA's), (14, 114858), (23, 114936), (25, 114948), (27, 114984), (28, 114996),

Gene: Paradiddles_223 Start: 116695, Stop: 116838, Start Num: 17

Candidate Starts for Paradiddles_223:

(Start: 8 @116605 has 20 MA's), (Start: 17 @116695 has 1 MA's), (20, 116731), (21, 116740), (28, 116803),

Gene: Peebs_228 Start: 115876, Stop: 116115, Start Num: 7

Candidate Starts for Peebs_228:

(Start: 7 @115876 has 17 MA's), (14, 115942), (23, 116020), (25, 116032), (27, 116068), (28, 116080),

Gene: Pepperwood_231 Start: 115684, Stop: 115923, Start Num: 7

Candidate Starts for Pepperwood_231:

(Start: 7 @115684 has 17 MA's), (14, 115750), (23, 115828), (25, 115840), (27, 115876), (28, 115888),

Gene: Persimmon_234 Start: 114718, Stop: 114951, Start Num: 8

Candidate Starts for Persimmon_234:

(Start: 8 @114718 has 20 MA's), (13, 114763), (Start: 17 @114808 has 1 MA's), (28, 114916),

Gene: PinkiePie_231 Start: 115385, Stop: 115618, Start Num: 8

Candidate Starts for PinkiePie_231:

(Start: 8 @115385 has 20 MA's), (13, 115430), (Start: 17 @115475 has 1 MA's), (28, 115583),

Gene: PumpkinSpice_251 Start: 115010, Stop: 115213, Start Num: 11

Candidate Starts for PumpkinSpice_251:

(1, 114887), (2, 114902), (3, 114923), (4, 114947), (5, 114959), (9, 114989), (Start: 11 @115010 has 32 MA's), (12, 115019), (16, 115058), (27, 115166), (30, 115196), (32, 115202),

Gene: PynkPanther_243 Start: 115583, Stop: 115816, Start Num: 8

Candidate Starts for PynkPanther_243:

(Start: 8 @115583 has 20 MA's), (13, 115628), (Start: 17 @115673 has 1 MA's), (28, 115781),

Gene: Quaran19_248 Start: 114451, Stop: 114654, Start Num: 11

Candidate Starts for Quaran19_248:

(1, 114328), (2, 114343), (3, 114364), (4, 114388), (5, 114400), (9, 114430), (Start: 11 @114451 has 32 MA's), (12, 114460), (16, 114499), (27, 114607), (30, 114637), (32, 114643),

Gene: Rikishi_249 Start: 114732, Stop: 114935, Start Num: 11

Candidate Starts for Rikishi_249:

(1, 114609), (2, 114624), (3, 114645), (4, 114669), (5, 114681), (9, 114711), (Start: 11 @114732 has 32 MA's), (12, 114741), (16, 114780), (27, 114888), (30, 114918), (32, 114924),

Gene: Riptide_232 Start: 114393, Stop: 114626, Start Num: 8

Candidate Starts for Riptide_232:

(Start: 8 @114393 has 20 MA's), (Start: 10 @114408 has 6 MA's), (19, 114489), (21, 114528), (26, 114552), (27, 114579), (28, 114591),

Gene: SaltySpittoon_248 Start: 113993, Stop: 114196, Start Num: 11

Candidate Starts for SaltySpittoon_248:

(1, 113870), (2, 113885), (3, 113906), (4, 113930), (5, 113942), (9, 113972), (Start: 11 @113993 has 32 MA's), (12, 114002), (16, 114041), (27, 114149), (30, 114179), (32, 114185),

Gene: Samisti12_235 Start: 117277, Stop: 117507, Start Num: 8

Candidate Starts for Samisti12_235:

(Start: 8 @117277 has 20 MA's), (Start: 17 @117367 has 1 MA's), (20, 117403), (28, 117475), (33, 117502),

Gene: Scheme_234 Start: 116923, Stop: 117162, Start Num: 7

Candidate Starts for Scheme_234:

(Start: 7 @116923 has 17 MA's), (14, 116989), (23, 117067), (25, 117079), (27, 117115), (28, 117127),

Gene: Shuckle_230 Start: 116236, Stop: 116469, Start Num: 8

Candidate Starts for Shuckle_230:

(Start: 8 @116236 has 20 MA's), (13, 116281), (Start: 17 @116326 has 1 MA's), (28, 116434),

Gene: Sollertia_245 Start: 114423, Stop: 114626, Start Num: 11

Candidate Starts for Sollertia_245:

(2, 114315), (3, 114336), (9, 114402), (Start: 11 @114423 has 32 MA's), (12, 114432), (15, 114462), (16, 114471), (22, 114534), (26, 114552), (27, 114579), (30, 114609), (32, 114615),

Gene: Spelly_253 Start: 113922, Stop: 114125, Start Num: 11

Candidate Starts for Spelly_253:

(1, 113799), (2, 113814), (3, 113835), (4, 113859), (5, 113871), (9, 113901), (Start: 11 @113922 has 32 MA's), (12, 113931), (16, 113970), (27, 114078), (30, 114108), (32, 114114),

Gene: Spilled_255 Start: 115126, Stop: 115329, Start Num: 11

Candidate Starts for Spilled_255:

(1, 115003), (2, 115018), (3, 115039), (4, 115063), (5, 115075), (9, 115105), (Start: 11 @115126 has 32 MA's), (12, 115135), (16, 115174), (27, 115282), (30, 115312), (32, 115318),

Gene: Squillium_234 Start: 115387, Stop: 115620, Start Num: 8

Candidate Starts for Squillium_234:

(Start: 8 @115387 has 20 MA's), (13, 115432), (Start: 17 @115477 has 1 MA's), (28, 115585),

Gene: Stanimal_244 Start: 114795, Stop: 114998, Start Num: 11

Candidate Starts for Stanimal_244:

(2, 114687), (3, 114708), (9, 114774), (Start: 11 @114795 has 32 MA's), (12, 114804), (15, 114834), (16, 114843), (22, 114906), (26, 114924), (27, 114951), (30, 114981), (32, 114987),

Gene: StarPlatinum_256 Start: 117210, Stop: 117413, Start Num: 11

Candidate Starts for StarPlatinum_256:

(3, 117123), (5, 117159), (9, 117189), (Start: 11 @117210 has 32 MA's), (12, 117219), (27, 117366), (30, 117396), (32, 117402),

Gene: Starbow_245 Start: 113966, Stop: 114169, Start Num: 11

Candidate Starts for Starbow_245:

(1, 113843), (2, 113858), (3, 113879), (4, 113903), (5, 113915), (9, 113945), (Start: 11 @113966 has 32 MA's), (12, 113975), (16, 114014), (27, 114122), (30, 114152), (32, 114158),

Gene: Sushi23_232 Start: 116742, Stop: 116981, Start Num: 7

Candidate Starts for Sushi23_232:

(Start: 7 @116742 has 17 MA's), (14, 116808), (23, 116886), (25, 116898), (27, 116934), (28, 116946),

Gene: Targaryen_231 Start: 116917, Stop: 117150, Start Num: 8

Candidate Starts for Targaryen_231:

(Start: 8 @116917 has 20 MA's), (13, 116962), (Start: 17 @117007 has 1 MA's), (23, 117055), (28, 117115), (33, 117142),

Gene: Teutsch_230 Start: 116107, Stop: 116346, Start Num: 7

Candidate Starts for Teutsch_230:

(Start: 7 @116107 has 17 MA's), (14, 116173), (23, 116251), (25, 116263), (27, 116299), (28, 116311),

Gene: TomSawyer_252 Start: 116437, Stop: 116640, Start Num: 11

Candidate Starts for TomSawyer_252:

(1, 116314), (2, 116329), (3, 116350), (4, 116374), (5, 116386), (9, 116416), (Start: 11 @116437 has 32 MA's), (12, 116446), (16, 116485), (27, 116593), (30, 116623), (32, 116629),

Gene: Tribute_227 Start: 116272, Stop: 116511, Start Num: 7

Candidate Starts for Tribute_227:

(Start: 7 @116272 has 17 MA's), (14, 116338), (23, 116416), (25, 116428), (27, 116464), (28, 116476),

Gene: Warpy_234 Start: 115402, Stop: 115635, Start Num: 8

Candidate Starts for Warpy_234:

(Start: 8 @115402 has 20 MA's), (13, 115447), (Start: 17 @115492 has 1 MA's), (28, 115600), (33, 115627),

Gene: Watermoore_230 Start: 116630, Stop: 116869, Start Num: 7

Candidate Starts for Watermoore_230:

(Start: 7 @116630 has 17 MA's), (14, 116696), (23, 116774), (25, 116786), (27, 116822), (28, 116834),

Gene: WhereRU_230 Start: 114879, Stop: 115112, Start Num: 8

Candidate Starts for WhereRU_230:

(Start: 8 @114879 has 20 MA's), (13, 114924), (Start: 17 @114969 has 1 MA's), (28, 115077),

Gene: Wipeout_238 Start: 115389, Stop: 115592, Start Num: 11

Candidate Starts for Wipeout_238:

(1, 115266), (2, 115281), (3, 115302), (4, 115326), (5, 115338), (9, 115368), (Start: 11 @115389 has 32 MA's), (12, 115398), (16, 115437), (27, 115545), (30, 115575), (32, 115581),

Gene: Wofford_247 Start: 117472, Stop: 117675, Start Num: 11

Candidate Starts for Wofford_247:

(3, 117385), (5, 117421), (9, 117451), (Start: 11 @117472 has 32 MA's), (12, 117481), (16, 117520), (22, 117583), (27, 117628), (30, 117658), (32, 117664),

Gene: Yaboi_249 Start: 114358, Stop: 114561, Start Num: 11

Candidate Starts for Yaboi_249:

(2, 114250), (3, 114271), (9, 114337), (Start: 11 @114358 has 32 MA's), (12, 114367), (15, 114397), (16, 114406), (22, 114469), (26, 114487), (27, 114514), (30, 114544), (32, 114550),