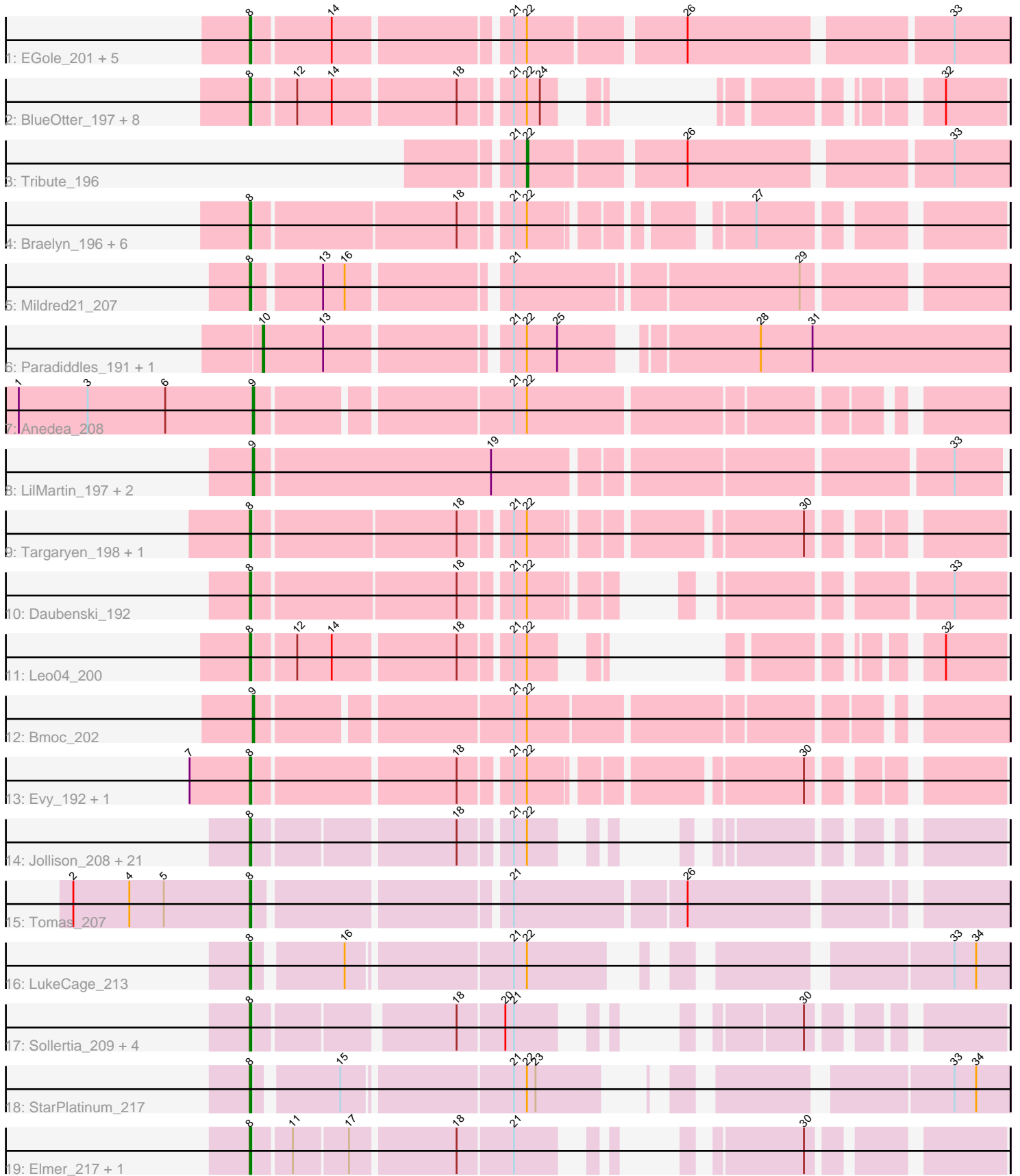


Pham 193982



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 193982 Report

This analysis was run 11/02/24 on database version 579.

Pham number 193982 has 69 members, 4 are drafts.

Phages represented in each track:

- Track 1 : EGole_201, Teutsch_198, Samisti12_202, Peebs_196, Pepperwood_198, Larnav_198
- Track 2 : BlueOtter_197, PacManQ_196, WhereRU_198, Cross_197, Scheme_201, HangryHippo_197, Watermoore_197, Lululemon_196, Cursive_200
- Track 3 : Tribute_196
- Track 4 : Braelyn_196, PinkiePie_198, Liandry_198, Persimmon_201, Navo_193, Squillium_201, Bartholomune_199
- Track 5 : Mildred21_207
- Track 6 : Paradiddles_191, NootNoot_195
- Track 7 : Anedea_208
- Track 8 : LilMartin_197, Angela_200, MulchMansion_201
- Track 9 : Targaryen_198, Jay2Jay_204
- Track 10 : Daubenski_192
- Track 11 : Leo04_200
- Track 12 : Bmoc_202
- Track 13 : Evy_192, Warpy_202
- Track 14 : Jollison_208, Spelly_215, Battuta_208, Mugiwara_220, Spilled_217, Wipeout_201, IchabodCrane_205, Quarant19_210, PumpkinSpice_213, TomSawyer_214, Gibbi_218, Starbow_207, Enigma_217, Karimac_211, JimJam_217, KentuckyRacer_216, Birchlyn_209, MindFlayer_203, CeilingFan_222, SaltySpittoon_210, Amabiko_214, Bordeaux_208
- Track 15 : Tomas_207
- Track 16 : LukeCage_213
- Track 17 : Sollertia_209, Genie2_207, BoomerJR_207, Yaboi_213, Stanimal_208
- Track 18 : StarPlatinum_217
- Track 19 : Elmer_217, Wofford_209

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

The start number called the most often in the published annotations is 8, it was called in 57 of the 65 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amabiko_214, Bartholomune_199, Battuta_208, Birchlyn_209, BlueOtter_197, BoomerJR_207, Bordeaux_208, Braelyn_196, CeilingFan_222, Cross_197, Cursive_200, Daubenski_192, EGole_201, Elmer_217, Enygma_217, Evy_192, Genie2_207, Gibbi_218, HangryHippo_197, IchabodCrane_205, Jay2Jay_204, JimJam_217, Jollison_208, Karimac_211, KentuckyRacer_216, Larnav_198, Leo04_200, Liandry_198, LukeCage_213, Lululemon_196, Mildred21_207, MindFlayer_203, Mugiwara_220, Navo_193, PacManQ_196, Peebs_196, Pepperwood_198, Persimmon_201, PinkiePie_198, PumpkinSpice_213, Quaran19_210, SaltySpitooon_210, Samisti12_202, Scheme_201, Sollertia_209, Spelly_215, Spilled_217, Squillium_201, Stanimal_208, StarPlatinum_217, Starbow_207, Targaryen_198, Teutsch_198, TomSawyer_214, Tomas_207, Warpy_202, Watermoore_197, WhereRU_198, Wipeout_201, Wofford_209, Yaboi_213,

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

-

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

- Anedea_208, Angela_200, Bmoc_202, LilMartin_197, MulchMansion_201, NootNoot_195, Paradiddles_191, Tribute_196,

Summary by start number:

Start 8:

- Found in 61 of 69 (88.4%) of genes in pham
- Manual Annotations of this start: 57 of 65
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Amabiko_214 (BE2), Bartholomune_199 (BE1), Battuta_208 (BE2), Birchlyn_209 (BE2), BlueOtter_197 (BE1), BoomerJR_207 (BE2), Bordeaux_208 (BE2), Braelyn_196 (BE1), CeilingFan_222 (BE2), Cross_197 (BE1), Cursive_200 (BE1), Daubenski_192 (BE1), EGole_201 (BE1), Elmer_217 (BE2), Enygma_217 (BE2), Evy_192 (BE1), Genie2_207 (BE2), Gibbi_218 (BE2), HangryHippo_197 (BE1), IchabodCrane_205 (BE2), Jay2Jay_204 (BE1), JimJam_217 (BE2), Jollison_208 (BE2), Karimac_211 (BE2), KentuckyRacer_216 (BE2), Larnav_198 (BE1), Leo04_200 (BE1), Liandry_198 (BE1), LukeCage_213 (BE2), Lululemon_196 (BE1), Mildred21_207 (BE1), MindFlayer_203 (BE2), Mugiwara_220 (BE2), Navo_193 (BE1), PacManQ_196 (BE1), Peebs_196 (BE1), Pepperwood_198 (BE1), Persimmon_201 (BE1), PinkiePie_198 (BE1), PumpkinSpice_213 (BE2), Quaran19_210 (BE2), SaltySpitooon_210 (BE2), Samisti12_202 (BE1), Scheme_201 (BE1), Sollertia_209 (BE2), Spelly_215 (BE2), Spilled_217 (BE2), Squillium_201 (BE1), Stanimal_208 (BE2), StarPlatinum_217 (BE2), Starbow_207 (BE2), Targaryen_198 (BE1), Teutsch_198 (BE1), TomSawyer_214 (BE2), Tomas_207 (BE2), Warpy_202 (BE1), Watermoore_197 (BE1), WhereRU_198 (BE1), Wipeout_201 (BE2), Wofford_209 (BE2), Yaboi_213 (BE2),

Start 9:

- Found in 5 of 69 (7.2%) of genes in pham
- Manual Annotations of this start: 5 of 65
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anedea_208 (BE1), Angela_200 (BE1), Bmoc_202 (BE1), LilMartin_197 (BE1), MulchMansion_201 (BE1),

Start 10:

- Found in 2 of 69 (2.9%) of genes in pham
- Manual Annotations of this start: 2 of 65
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NootNoot_195 (BE1), Paradiddles_191 (BE1),

Start 22:

- Found in 57 of 69 (82.6%) of genes in pham
- Manual Annotations of this start: 1 of 65
- Called 1.8% of time when present
- Phage (with cluster) where this start called: Tribute_196 (BE1),

Summary by clusters:

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

Info for manual annotations of cluster BE1:

- Start number 8 was manually annotated 28 times for cluster BE1.
- Start number 9 was manually annotated 5 times for cluster BE1.
- Start number 10 was manually annotated 2 times for cluster BE1.
- Start number 22 was manually annotated 1 time for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 8 was manually annotated 29 times for cluster BE2.

Gene Information:

Gene: Amabiko_214 Start: 104374, Stop: 104748, Start Num: 8

Candidate Starts for Amabiko_214:

(Start: 8 @104374 has 57 MA's), (18, 104503), (21, 104533), (Start: 22 @104542 has 1 MA's),

Gene: Anedea_208 Start: 104334, Stop: 104798, Start Num: 9

Candidate Starts for Anedea_208:

(1, 104172), (3, 104220), (6, 104274), (Start: 9 @104334 has 5 MA's), (21, 104496), (Start: 22 @104505 has 1 MA's),

Gene: Angela_200 Start: 103292, Stop: 103777, Start Num: 9

Candidate Starts for Angela_200:

(Start: 9 @103292 has 5 MA's), (19, 103454), (33, 103745),

Gene: Bartholomune_199 Start: 103384, Stop: 103830, Start Num: 8

Candidate Starts for Bartholomune_199:

(Start: 8 @103384 has 57 MA's), (18, 103519), (21, 103549), (Start: 22 @103558 has 1 MA's), (27, 103684),

Gene: Battuta_208 Start: 103690, Stop: 104064, Start Num: 8

Candidate Starts for Battuta_208:

(Start: 8 @103690 has 57 MA's), (18, 103819), (21, 103849), (Start: 22 @103858 has 1 MA's),

Gene: Birchlyn_209 Start: 101622, Stop: 101996, Start Num: 8

Candidate Starts for Birchlyn_209:

(Start: 8 @101622 has 57 MA's), (18, 101751), (21, 101781), (Start: 22 @101790 has 1 MA's),

Gene: BlueOtter_197 Start: 103701, Stop: 104063, Start Num: 8

Candidate Starts for BlueOtter_197:

(Start: 8 @103701 has 57 MA's), (12, 103728), (14, 103752), (18, 103833), (21, 103863), (Start: 22 @103872 has 1 MA's), (24, 103881), (32, 104022),

Gene: Bmoc_202 Start: 103726, Stop: 104187, Start Num: 9

Candidate Starts for Bmoc_202:

(Start: 9 @103726 has 5 MA's), (21, 103888), (Start: 22 @103897 has 1 MA's),

Gene: BoomerJR_207 Start: 104393, Stop: 104773, Start Num: 8

Candidate Starts for BoomerJR_207:

(Start: 8 @104393 has 57 MA's), (18, 104519), (20, 104549), (21, 104555), (30, 104666),

Gene: Bordeaux_208 Start: 104273, Stop: 104647, Start Num: 8

Candidate Starts for Bordeaux_208:

(Start: 8 @104273 has 57 MA's), (18, 104402), (21, 104432), (Start: 22 @104441 has 1 MA's),

Gene: Braelyn_196 Start: 103051, Stop: 103491, Start Num: 8

Candidate Starts for Braelyn_196:

(Start: 8 @103051 has 57 MA's), (18, 103186), (21, 103216), (Start: 22 @103225 has 1 MA's), (27, 103345),

Gene: CeilingFan_222 Start: 105067, Stop: 105441, Start Num: 8

Candidate Starts for CeilingFan_222:

(Start: 8 @105067 has 57 MA's), (18, 105196), (21, 105226), (Start: 22 @105235 has 1 MA's),

Gene: Cross_197 Start: 104346, Stop: 104708, Start Num: 8

Candidate Starts for Cross_197:

(Start: 8 @104346 has 57 MA's), (12, 104373), (14, 104397), (18, 104478), (21, 104508), (Start: 22 @104517 has 1 MA's), (24, 104526), (32, 104667),

Gene: Cursive_200 Start: 104030, Stop: 104392, Start Num: 8

Candidate Starts for Cursive_200:

(Start: 8 @104030 has 57 MA's), (12, 104057), (14, 104081), (18, 104162), (21, 104192), (Start: 22 @104201 has 1 MA's), (24, 104210), (32, 104351),

Gene: Daubenski_192 Start: 104576, Stop: 104989, Start Num: 8

Candidate Starts for Daubenski_192:

(Start: 8 @104576 has 57 MA's), (18, 104711), (21, 104741), (Start: 22 @104750 has 1 MA's), (33, 104954),

Gene: EGole_201 Start: 105998, Stop: 106474, Start Num: 8

Candidate Starts for EGole_201:

(Start: 8 @105998 has 57 MA's), (14, 106049), (21, 106160), (Start: 22 @106169 has 1 MA's), (26, 106268), (33, 106436),

Gene: Elmer_217 Start: 107394, Stop: 107786, Start Num: 8

Candidate Starts for Elmer_217:

(Start: 8 @107394 has 57 MA's), (11, 107418), (17, 107454), (18, 107523), (21, 107559), (30, 107673),

Gene: Enygma_217 Start: 107244, Stop: 107621, Start Num: 8
Candidate Starts for Enygma_217:
(Start: 8 @107244 has 57 MA's), (18, 107373), (21, 107403), (Start: 22 @107412 has 1 MA's),

Gene: Evy_192 Start: 104718, Stop: 105164, Start Num: 8
Candidate Starts for Evy_192:
(7, 104676), (Start: 8 @104718 has 57 MA's), (18, 104850), (21, 104880), (Start: 22 @104889 has 1 MA's), (30, 105054),

Gene: Genie2_207 Start: 104518, Stop: 104898, Start Num: 8
Candidate Starts for Genie2_207:
(Start: 8 @104518 has 57 MA's), (18, 104644), (20, 104674), (21, 104680), (30, 104791),

Gene: Gibbi_218 Start: 104560, Stop: 104934, Start Num: 8
Candidate Starts for Gibbi_218:
(Start: 8 @104560 has 57 MA's), (18, 104689), (21, 104719), (Start: 22 @104728 has 1 MA's),

Gene: HangryHippo_197 Start: 103701, Stop: 104063, Start Num: 8
Candidate Starts for HangryHippo_197:
(Start: 8 @103701 has 57 MA's), (12, 103728), (14, 103752), (18, 103833), (21, 103863), (Start: 22 @103872 has 1 MA's), (24, 103881), (32, 104022),

Gene: IchabodCrane_205 Start: 104075, Stop: 104449, Start Num: 8
Candidate Starts for IchabodCrane_205:
(Start: 8 @104075 has 57 MA's), (18, 104204), (21, 104234), (Start: 22 @104243 has 1 MA's),

Gene: Jay2Jay_204 Start: 104870, Stop: 105319, Start Num: 8
Candidate Starts for Jay2Jay_204:
(Start: 8 @104870 has 57 MA's), (18, 105005), (21, 105035), (Start: 22 @105044 has 1 MA's), (30, 105209),

Gene: JimJam_217 Start: 105996, Stop: 106370, Start Num: 8
Candidate Starts for JimJam_217:
(Start: 8 @105996 has 57 MA's), (18, 106125), (21, 106155), (Start: 22 @106164 has 1 MA's),

Gene: Jollison_208 Start: 104206, Stop: 104580, Start Num: 8
Candidate Starts for Jollison_208:
(Start: 8 @104206 has 57 MA's), (18, 104335), (21, 104365), (Start: 22 @104374 has 1 MA's),

Gene: Karimac_211 Start: 104400, Stop: 104765, Start Num: 8
Candidate Starts for Karimac_211:
(Start: 8 @104400 has 57 MA's), (18, 104529), (21, 104559), (Start: 22 @104568 has 1 MA's),

Gene: KentuckyRacer_216 Start: 105911, Stop: 106285, Start Num: 8
Candidate Starts for KentuckyRacer_216:
(Start: 8 @105911 has 57 MA's), (18, 106040), (21, 106070), (Start: 22 @106079 has 1 MA's),

Gene: Larnav_198 Start: 104321, Stop: 104797, Start Num: 8
Candidate Starts for Larnav_198:
(Start: 8 @104321 has 57 MA's), (14, 104372), (21, 104483), (Start: 22 @104492 has 1 MA's), (26, 104591), (33, 104759),

Gene: Leo04_200 Start: 105010, Stop: 105366, Start Num: 8
Candidate Starts for Leo04_200:
(Start: 8 @105010 has 57 MA's), (12, 105037), (14, 105061), (18, 105142), (21, 105172), (Start: 22 @105181 has 1 MA's), (32, 105325),

Gene: Liandry_198 Start: 103703, Stop: 104149, Start Num: 8
Candidate Starts for Liandry_198:
(Start: 8 @103703 has 57 MA's), (18, 103838), (21, 103868), (Start: 22 @103877 has 1 MA's), (27, 104003),

Gene: LilMartin_197 Start: 102656, Stop: 103141, Start Num: 9
Candidate Starts for LilMartin_197:
(Start: 9 @102656 has 5 MA's), (19, 102818), (33, 103109),

Gene: LukeCage_213 Start: 106009, Stop: 106440, Start Num: 8
Candidate Starts for LukeCage_213:
(Start: 8 @106009 has 57 MA's), (16, 106063), (21, 106168), (Start: 22 @106177 has 1 MA's), (33, 106402), (34, 106417),

Gene: Lululemon_196 Start: 103082, Stop: 103444, Start Num: 8
Candidate Starts for Lululemon_196:
(Start: 8 @103082 has 57 MA's), (12, 103109), (14, 103133), (18, 103214), (21, 103244), (Start: 22 @103253 has 1 MA's), (24, 103262), (32, 103403),

Gene: Mildred21_207 Start: 102178, Stop: 102648, Start Num: 8
Candidate Starts for Mildred21_207:
(Start: 8 @102178 has 57 MA's), (13, 102220), (16, 102235), (21, 102334), (29, 102520),

Gene: MindFlayer_203 Start: 103591, Stop: 103965, Start Num: 8
Candidate Starts for MindFlayer_203:
(Start: 8 @103591 has 57 MA's), (18, 103720), (21, 103750), (Start: 22 @103759 has 1 MA's),

Gene: Mugiwara_220 Start: 106520, Stop: 106894, Start Num: 8
Candidate Starts for Mugiwara_220:
(Start: 8 @106520 has 57 MA's), (18, 106649), (21, 106679), (Start: 22 @106688 has 1 MA's),

Gene: MulchMansion_201 Start: 104290, Stop: 104775, Start Num: 9
Candidate Starts for MulchMansion_201:
(Start: 9 @104290 has 5 MA's), (19, 104452), (33, 104743),

Gene: Navo_193 Start: 102255, Stop: 102695, Start Num: 8
Candidate Starts for Navo_193:
(Start: 8 @102255 has 57 MA's), (18, 102390), (21, 102420), (Start: 22 @102429 has 1 MA's), (27, 102549),

Gene: NootNoot_195 Start: 102498, Stop: 102971, Start Num: 10
Candidate Starts for NootNoot_195:
(Start: 10 @102498 has 2 MA's), (13, 102540), (21, 102654), (Start: 22 @102663 has 1 MA's), (25, 102684), (28, 102801), (31, 102837),

Gene: PacManQ_196 Start: 103082, Stop: 103444, Start Num: 8
Candidate Starts for PacManQ_196:

(Start: 8 @103082 has 57 MA's), (12, 103109), (14, 103133), (18, 103214), (21, 103244), (Start: 22 @103253 has 1 MA's), (24, 103262), (32, 103403),

Gene: Paradiddles_191 Start: 104870, Stop: 105346, Start Num: 10

Candidate Starts for Paradiddles_191:

(Start: 10 @104870 has 2 MA's), (13, 104912), (21, 105026), (Start: 22 @105035 has 1 MA's), (25, 105056), (28, 105173), (31, 105209),

Gene: Peebs_196 Start: 104292, Stop: 104768, Start Num: 8

Candidate Starts for Peebs_196:

(Start: 8 @104292 has 57 MA's), (14, 104343), (21, 104454), (Start: 22 @104463 has 1 MA's), (26, 104562), (33, 104730),

Gene: Pepperwood_198 Start: 104250, Stop: 104726, Start Num: 8

Candidate Starts for Pepperwood_198:

(Start: 8 @104250 has 57 MA's), (14, 104301), (21, 104412), (Start: 22 @104421 has 1 MA's), (26, 104520), (33, 104688),

Gene: Persimmon_201 Start: 103273, Stop: 103713, Start Num: 8

Candidate Starts for Persimmon_201:

(Start: 8 @103273 has 57 MA's), (18, 103408), (21, 103438), (Start: 22 @103447 has 1 MA's), (27, 103567),

Gene: PinkiePie_198 Start: 103703, Stop: 104149, Start Num: 8

Candidate Starts for PinkiePie_198:

(Start: 8 @103703 has 57 MA's), (18, 103838), (21, 103868), (Start: 22 @103877 has 1 MA's), (27, 104003),

Gene: PumpkinSpice_213 Start: 104812, Stop: 105186, Start Num: 8

Candidate Starts for PumpkinSpice_213:

(Start: 8 @104812 has 57 MA's), (18, 104941), (21, 104971), (Start: 22 @104980 has 1 MA's),

Gene: Quaran19_210 Start: 104253, Stop: 104627, Start Num: 8

Candidate Starts for Quaran19_210:

(Start: 8 @104253 has 57 MA's), (18, 104382), (21, 104412), (Start: 22 @104421 has 1 MA's),

Gene: SaltySpittoon_210 Start: 103795, Stop: 104169, Start Num: 8

Candidate Starts for SaltySpittoon_210:

(Start: 8 @103795 has 57 MA's), (18, 103924), (21, 103954), (Start: 22 @103963 has 1 MA's),

Gene: Samisti12_202 Start: 105874, Stop: 106350, Start Num: 8

Candidate Starts for Samisti12_202:

(Start: 8 @105874 has 57 MA's), (14, 105925), (21, 106036), (Start: 22 @106045 has 1 MA's), (26, 106144), (33, 106312),

Gene: Scheme_201 Start: 105589, Stop: 105948, Start Num: 8

Candidate Starts for Scheme_201:

(Start: 8 @105589 has 57 MA's), (12, 105616), (14, 105640), (18, 105721), (21, 105751), (Start: 22 @105760 has 1 MA's), (24, 105769), (32, 105907),

Gene: Sollertia_209 Start: 104507, Stop: 104887, Start Num: 8

Candidate Starts for Sollertia_209:

(Start: 8 @104507 has 57 MA's), (18, 104633), (20, 104663), (21, 104669), (30, 104780),

Gene: Spelly_215 Start: 103724, Stop: 104098, Start Num: 8
Candidate Starts for Spelly_215:
(Start: 8 @103724 has 57 MA's), (18, 103853), (21, 103883), (Start: 22 @103892 has 1 MA's),

Gene: Spilled_217 Start: 104928, Stop: 105302, Start Num: 8
Candidate Starts for Spilled_217:
(Start: 8 @104928 has 57 MA's), (18, 105057), (21, 105087), (Start: 22 @105096 has 1 MA's),

Gene: Squillium_201 Start: 103705, Stop: 104151, Start Num: 8
Candidate Starts for Squillium_201:
(Start: 8 @103705 has 57 MA's), (18, 103840), (21, 103870), (Start: 22 @103879 has 1 MA's), (27, 104005),

Gene: Stanimal_208 Start: 104879, Stop: 105259, Start Num: 8
Candidate Starts for Stanimal_208:
(Start: 8 @104879 has 57 MA's), (18, 105005), (20, 105035), (21, 105041), (30, 105152),

Gene: StarPlatinum_217 Start: 106518, Stop: 106940, Start Num: 8
Candidate Starts for StarPlatinum_217:
(Start: 8 @106518 has 57 MA's), (15, 106569), (21, 106677), (Start: 22 @106686 has 1 MA's), (23, 106692), (33, 106902), (34, 106917),

Gene: Starbow_207 Start: 103768, Stop: 104142, Start Num: 8
Candidate Starts for Starbow_207:
(Start: 8 @103768 has 57 MA's), (18, 103897), (21, 103927), (Start: 22 @103936 has 1 MA's),

Gene: Targaryen_198 Start: 105399, Stop: 105848, Start Num: 8
Candidate Starts for Targaryen_198:
(Start: 8 @105399 has 57 MA's), (18, 105534), (21, 105564), (Start: 22 @105573 has 1 MA's), (30, 105738),

Gene: Teutsch_198 Start: 104971, Stop: 105456, Start Num: 8
Candidate Starts for Teutsch_198:
(Start: 8 @104971 has 57 MA's), (14, 105022), (21, 105133), (Start: 22 @105142 has 1 MA's), (26, 105250), (33, 105418),

Gene: TomSawyer_214 Start: 106239, Stop: 106613, Start Num: 8
Candidate Starts for TomSawyer_214:
(Start: 8 @106239 has 57 MA's), (18, 106368), (21, 106398), (Start: 22 @106407 has 1 MA's),

Gene: Tomas_207 Start: 104947, Stop: 105417, Start Num: 8
Candidate Starts for Tomas_207:
(2, 104824), (4, 104863), (5, 104887), (Start: 8 @104947 has 57 MA's), (21, 105106), (26, 105217),

Gene: Tribute_196 Start: 104992, Stop: 105297, Start Num: 22
Candidate Starts for Tribute_196:
(21, 104983), (Start: 22 @104992 has 1 MA's), (26, 105091), (33, 105259),

Gene: Warpy_202 Start: 104311, Stop: 104757, Start Num: 8
Candidate Starts for Warpy_202:
(7, 104269), (Start: 8 @104311 has 57 MA's), (18, 104443), (21, 104473), (Start: 22 @104482 has 1 MA's), (30, 104647),

Gene: Watermoore_197 Start: 105344, Stop: 105706, Start Num: 8

Candidate Starts for Watermoore_197:

(Start: 8 @105344 has 57 MA's), (12, 105371), (14, 105395), (18, 105476), (21, 105506), (Start: 22 @105515 has 1 MA's), (24, 105524), (32, 105665),

Gene: WhereRU_198 Start: 103531, Stop: 103893, Start Num: 8

Candidate Starts for WhereRU_198:

(Start: 8 @103531 has 57 MA's), (12, 103558), (14, 103582), (18, 103663), (21, 103693), (Start: 22 @103702 has 1 MA's), (24, 103711), (32, 103852),

Gene: Wipeout_201 Start: 105191, Stop: 105565, Start Num: 8

Candidate Starts for Wipeout_201:

(Start: 8 @105191 has 57 MA's), (18, 105320), (21, 105350), (Start: 22 @105359 has 1 MA's),

Gene: Wofford_209 Start: 107262, Stop: 107654, Start Num: 8

Candidate Starts for Wofford_209:

(Start: 8 @107262 has 57 MA's), (11, 107286), (17, 107322), (18, 107391), (21, 107427), (30, 107541),

Gene: Yaboi_213 Start: 104442, Stop: 104822, Start Num: 8

Candidate Starts for Yaboi_213:

(Start: 8 @104442 has 57 MA's), (18, 104568), (20, 104598), (21, 104604), (30, 104715),