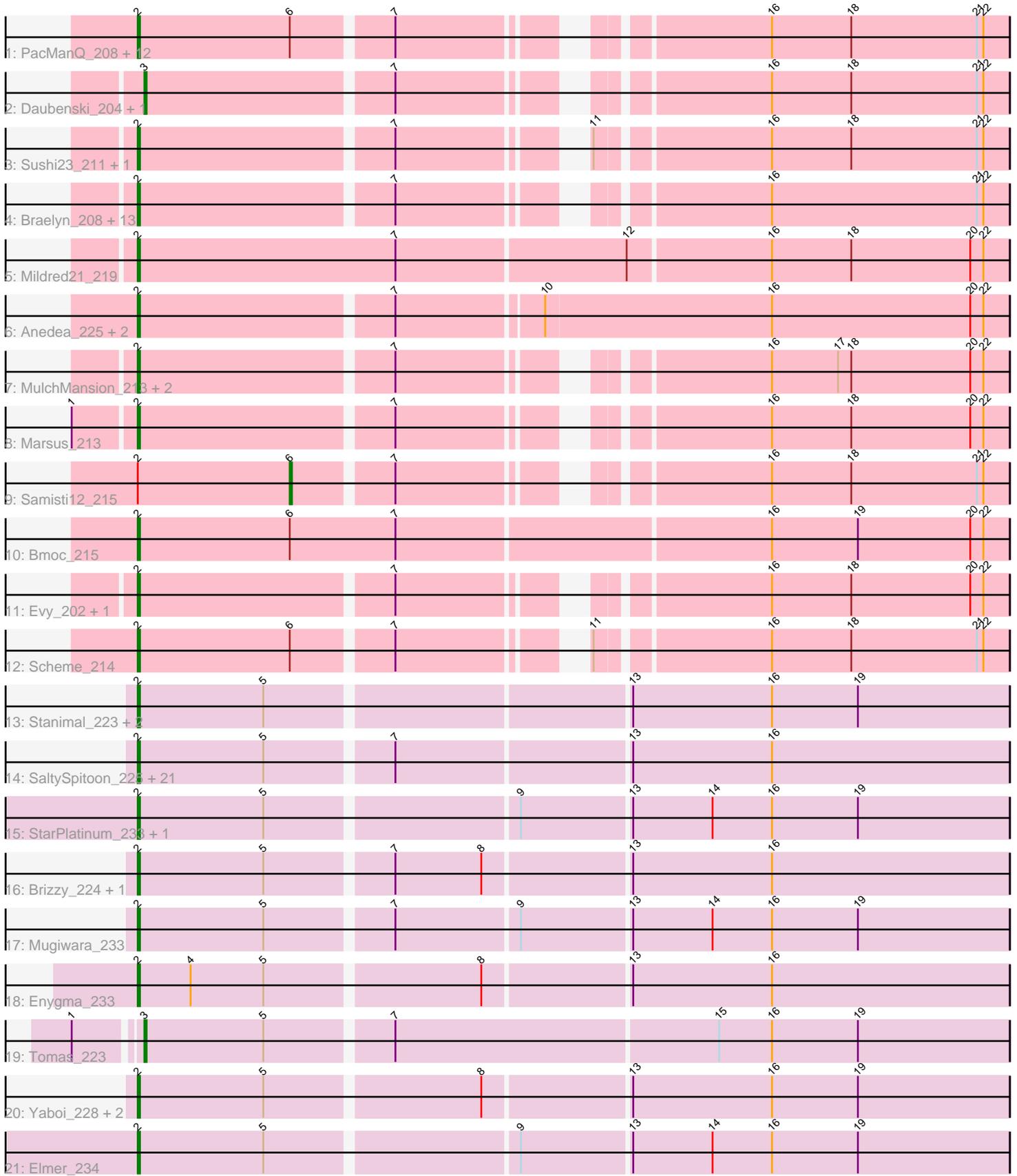


Pham 291085



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 291085 Report

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

Pham number 291085 has 80 members, 4 are drafts.

Phages represented in each track:

- Track 1 : PacManQ_208, Teutsch_210, HangryHippo_209, Lululemon_208, Larnav_210, Cursive_213, Watermoore_210, EGole_214, BlueOtter_209, Coogler_208, Leo04_212, Peebs_208, Cross_210
- Track 2 : Daubenski_204, Cadmus_208
- Track 3 : Sushi23_211, Pepperwood_211
- Track 4 : Braelyn_208, Eliot67_212, Davielle_211, Navo_206, Squillium_214, FreddyDRoo_214, Bartholomune_212, Liandry_211, Paradiddles_203, Shuckle_209, WhereRU_211, Persimmon_214, NootNoot_208, PinkiePie_211
- Track 5 : Mildred21_219
- Track 6 : Anedea_225, Riptide_213, LilSaint_213
- Track 7 : MulchMansion_213, Angela_212, LilMartin_209
- Track 8 : Marsus_213
- Track 9 : Samisti12_215
- Track 10 : Bmoc_215
- Track 11 : Evy_202, Targaryen_210
- Track 12 : Scheme_214
- Track 13 : Stanimal_223, AngryGiraffe_223, BoomerJR_223
- Track 14 : SaltySpitoon_225, Starbow_222, TomSawyer_229, JimJam_232, Battuta_223, KentuckyRacer_231, Jollison_222, LukeCage_229, IchabodCrane_219, Bordeaux_223, AcciDwight_233, Birchlyn_224, Rikishi_226, Spelly_230, Amabiko_229, Spilled_232, Gibbi_233, Quarant19_225, CeilingFan_229, Wipeout_216, PumpkinSpice_228, MindFlayer_218
- Track 15 : StarPlatinum_233, Wofford_226
- Track 16 : Brizzy_224, Karimac_225
- Track 17 : Mugiwara_233
- Track 18 : Enygma_233
- Track 19 : Tomas_223
- Track 20 : Yaboi_228, Sollertia_224, Genie2_223
- Track 21 : Elmer_234

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

The start number called the most often in the published annotations is 2, it was called in 72 of the 76 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AcciDwight_233, Amabiko_229, Anedea_225, Angela_212, AngryGiraffe_223, Bartholomune_212, Battuta_223, Birchlyn_224, BlueOtter_209, Bmoc_215, BoomerJR_223, Bordeaux_223, Braelyn_208, Brizzy_224, CeilingFan_229, Coogler_208, Cross_210, Cursive_213, Davielle_211, EGole_214, Eliot67_212, Elmer_234, Enygma_233, Evy_202, FreddyDRoo_214, Genie2_223, Gibbi_233, HangryHippo_209, IchabodCrane_219, JimJam_232, Jollison_222, Karimac_225, KentuckyRacer_231, Larnav_210, Leo04_212, Liandry_211, LilMartin_209, LilSaint_213, LukeCage_229, Lululemon_208, Marsus_213, Mildred21_219, MindFlayer_218, Mugiwara_233, MulchMansion_213, Navo_206, NootNoot_208, PacManQ_208, Paradiddles_203, Peebs_208, Pepperwood_211, Persimmon_214, PinkiePie_211, PumpkinSpice_228, Quaran19_225, Rikishi_226, Riptide_213, SaltySpittoon_225, Scheme_214, Shuckle_209, Sollertia_224, Spelly_230, Spilled_232, Squillium_214, Stanimal_223, StarPlatinum_233, Starbow_222, Sushi23_211, Targaryen_210, Teutsch_210, TomSawyer_229, Watermoore_210, WhereRU_211, Wipeout_216, Wofford_226, Yaboi_228,

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

- Samisti12_215,

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

- Cadmus_208, Daubenski_204, Tomas_223,

Summary by start number:

Start 2:

- Found in 77 of 80 (96.2%) of genes in pham
- Manual Annotations of this start: 72 of 76
- Called 98.7% of time when present
- Phage (with cluster) where this start called: AcciDwight_233 (BE2), Amabiko_229 (BE2), Anedea_225 (BE1), Angela_212 (BE1), AngryGiraffe_223 (BE2), Bartholomune_212 (BE1), Battuta_223 (BE2), Birchlyn_224 (BE2), BlueOtter_209 (BE1), Bmoc_215 (BE1), BoomerJR_223 (BE2), Bordeaux_223 (BE2), Braelyn_208 (BE1), Brizzy_224 (BE2), CeilingFan_229 (BE2), Coogler_208 (BE1), Cross_210 (BE1), Cursive_213 (BE1), Davielle_211 (BE1), EGole_214 (BE1), Eliot67_212 (BE1), Elmer_234 (BE2), Enygma_233 (BE2), Evy_202 (BE1), FreddyDRoo_214 (BE1), Genie2_223 (BE2), Gibbi_233 (BE2), HangryHippo_209 (BE1), IchabodCrane_219 (BE2), JimJam_232 (BE2), Jollison_222 (BE2), Karimac_225 (BE2), KentuckyRacer_231 (BE2), Larnav_210 (BE1), Leo04_212 (BE1), Liandry_211 (BE1), LilMartin_209 (BE1), LilSaint_213 (BE1), LukeCage_229 (BE2), Lululemon_208 (BE1), Marsus_213 (BE1), Mildred21_219 (BE1), MindFlayer_218 (BE2), Mugiwara_233 (BE2), MulchMansion_213 (BE1), Navo_206 (BE1), NootNoot_208 (BE1), PacManQ_208 (BE1), Paradiddles_203 (BE1), Peebs_208 (BE1), Pepperwood_211 (BE1), Persimmon_214 (BE1), PinkiePie_211 (BE1), PumpkinSpice_228 (BE2), Quaran19_225 (BE2), Rikishi_226 (BE2), Riptide_213 (BE1), SaltySpittoon_225 (BE2), Scheme_214 (BE1), Shuckle_209 (BE1), Sollertia_224 (BE2), Spelly_230 (BE2), Spilled_232 (BE2), Squillium_214 (BE1), Stanimal_223 (BE2), StarPlatinum_233 (BE2), Starbow_222 (BE2), Sushi23_211 (BE1), Targaryen_210 (BE1), Teutsch_210 (BE1), TomSawyer_229 (BE2), Watermoore_210 (BE1), WhereRU_211 (BE1), Wipeout_216 (BE2), Wofford_226 (BE2), Yaboi_228 (BE2),

Start 3:

- Found in 3 of 80 (3.8%) of genes in pham
- Manual Annotations of this start: 3 of 76
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cadmus_208 (BE1), Daubenski_204 (BE1), Tomas_223 (BE2),

Start 6:

- Found in 16 of 80 (20.0%) of genes in pham
- Manual Annotations of this start: 1 of 76
- Called 6.2% of time when present
- Phage (with cluster) where this start called: Samisti12_215 (BE1),

Summary by clusters:

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

Info for manual annotations of cluster BE1:

- Start number 2 was manually annotated 39 times for cluster BE1.
- Start number 3 was manually annotated 2 times for cluster BE1.
- Start number 6 was manually annotated 1 time for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 2 was manually annotated 33 times for cluster BE2.
- Start number 3 was manually annotated 1 time for cluster BE2.

Gene Information:

Gene: AcciDwight_233 Start: 107633, Stop: 108016, Start Num: 2

Candidate Starts for AcciDwight_233:

(Start: 2 @107633 has 72 MA's), (5, 107690), (7, 107744), (13, 107846), (16, 107909),

Gene: Amabiko_229 Start: 107451, Stop: 107834, Start Num: 2

Candidate Starts for Amabiko_229:

(Start: 2 @107451 has 72 MA's), (5, 107508), (7, 107562), (13, 107664), (16, 107727),

Gene: Anedea_225 Start: 108387, Stop: 108770, Start Num: 2

Candidate Starts for Anedea_225:

(Start: 2 @108387 has 72 MA's), (7, 108498), (10, 108561), (16, 108663), (20, 108753), (22, 108759),

Gene: Angela_212 Start: 105457, Stop: 105816, Start Num: 2

Candidate Starts for Angela_212:

(Start: 2 @105457 has 72 MA's), (7, 105568), (16, 105709), (17, 105739), (18, 105745), (20, 105799), (22, 105805),

Gene: AngryGiraffe_223 Start: 107336, Stop: 107719, Start Num: 2

Candidate Starts for AngryGiraffe_223:

(Start: 2 @107336 has 72 MA's), (5, 107393), (13, 107549), (16, 107612), (19, 107651),

Gene: Bartholomune_212 Start: 106018, Stop: 106377, Start Num: 2

Candidate Starts for Bartholomune_212:

(Start: 2 @106018 has 72 MA's), (7, 106129), (16, 106270), (21, 106363), (22, 106366),

Gene: Battuta_223 Start: 106766, Stop: 107149, Start Num: 2

Candidate Starts for Battuta_223:

(Start: 2 @106766 has 72 MA's), (5, 106823), (7, 106877), (13, 106979), (16, 107042),

Gene: Birchlyn_224 Start: 104699, Stop: 105082, Start Num: 2

Candidate Starts for Birchlyn_224:

(Start: 2 @104699 has 72 MA's), (5, 104756), (7, 104810), (13, 104912), (16, 104975),

Gene: BlueOtter_209 Start: 106161, Stop: 106520, Start Num: 2

Candidate Starts for BlueOtter_209:

(Start: 2 @106161 has 72 MA's), (Start: 6 @106230 has 1 MA's), (7, 106272), (16, 106413), (18, 106449), (21, 106506), (22, 106509),

Gene: Bmoc_215 Start: 106273, Stop: 106662, Start Num: 2

Candidate Starts for Bmoc_215:

(Start: 2 @106273 has 72 MA's), (Start: 6 @106342 has 1 MA's), (7, 106390), (16, 106555), (19, 106594), (20, 106645), (22, 106651),

Gene: BoomerJR_223 Start: 107769, Stop: 108152, Start Num: 2

Candidate Starts for BoomerJR_223:

(Start: 2 @107769 has 72 MA's), (5, 107826), (13, 107982), (16, 108045), (19, 108084),

Gene: Bordeaux_223 Start: 107349, Stop: 107732, Start Num: 2

Candidate Starts for Bordeaux_223:

(Start: 2 @107349 has 72 MA's), (5, 107406), (7, 107460), (13, 107562), (16, 107625),

Gene: Braelyn_208 Start: 105665, Stop: 106024, Start Num: 2

Candidate Starts for Braelyn_208:

(Start: 2 @105665 has 72 MA's), (7, 105776), (16, 105917), (21, 106010), (22, 106013),

Gene: Brizzy_224 Start: 107877, Stop: 108260, Start Num: 2

Candidate Starts for Brizzy_224:

(Start: 2 @107877 has 72 MA's), (5, 107934), (7, 107988), (8, 108027), (13, 108090), (16, 108153),

Gene: Cadmus_208 Start: 106959, Stop: 107315, Start Num: 3

Candidate Starts for Cadmus_208:

(Start: 3 @106959 has 3 MA's), (7, 107067), (16, 107208), (18, 107244), (21, 107301), (22, 107304),

Gene: CeilingFan_229 Start: 108144, Stop: 108527, Start Num: 2

Candidate Starts for CeilingFan_229:

(Start: 2 @108144 has 72 MA's), (5, 108201), (7, 108255), (13, 108357), (16, 108420),

Gene: Coogler_208 Start: 106553, Stop: 106912, Start Num: 2

Candidate Starts for Coogler_208:

(Start: 2 @106553 has 72 MA's), (Start: 6 @106622 has 1 MA's), (7, 106664), (16, 106805), (18, 106841), (21, 106898), (22, 106901),

Gene: Cross_210 Start: 106806, Stop: 107165, Start Num: 2

Candidate Starts for Cross_210:

(Start: 2 @106806 has 72 MA's), (Start: 6 @106875 has 1 MA's), (7, 106917), (16, 107058), (18, 107094), (21, 107151), (22, 107154),

Gene: Cursive_213 Start: 106490, Stop: 106849, Start Num: 2

Candidate Starts for Cursive_213:

(Start: 2 @106490 has 72 MA's), (Start: 6 @106559 has 1 MA's), (7, 106601), (16, 106742), (18, 106778), (21, 106835), (22, 106838),

Gene: Daubenski_204 Start: 106854, Stop: 107210, Start Num: 3

Candidate Starts for Daubenski_204:

(Start: 3 @106854 has 3 MA's), (7, 106962), (16, 107103), (18, 107139), (21, 107196), (22, 107199),

Gene: Davielle_211 Start: 106063, Stop: 106422, Start Num: 2

Candidate Starts for Davielle_211:

(Start: 2 @106063 has 72 MA's), (7, 106174), (16, 106315), (21, 106408), (22, 106411),

Gene: EGole_214 Start: 108503, Stop: 108862, Start Num: 2

Candidate Starts for EGole_214:

(Start: 2 @108503 has 72 MA's), (Start: 6 @108572 has 1 MA's), (7, 108614), (16, 108755), (18, 108791), (21, 108848), (22, 108851),

Gene: Eliot67_212 Start: 105554, Stop: 105913, Start Num: 2

Candidate Starts for Eliot67_212:

(Start: 2 @105554 has 72 MA's), (7, 105665), (16, 105806), (21, 105899), (22, 105902),

Gene: Elmer_234 Start: 111093, Stop: 111476, Start Num: 2

Candidate Starts for Elmer_234:

(Start: 2 @111093 has 72 MA's), (5, 111150), (9, 111258), (13, 111306), (14, 111342), (16, 111369), (19, 111408),

Gene: Enygma_233 Start: 110553, Stop: 110936, Start Num: 2

Candidate Starts for Enygma_233:

(Start: 2 @110553 has 72 MA's), (4, 110577), (5, 110610), (8, 110703), (13, 110766), (16, 110829),

Gene: Evy_202 Start: 106956, Stop: 107315, Start Num: 2

Candidate Starts for Evy_202:

(Start: 2 @106956 has 72 MA's), (7, 107067), (16, 107208), (18, 107244), (20, 107298), (22, 107304),

Gene: FreddyDRoo_214 Start: 105554, Stop: 105913, Start Num: 2

Candidate Starts for FreddyDRoo_214:

(Start: 2 @105554 has 72 MA's), (7, 105665), (16, 105806), (21, 105899), (22, 105902),

Gene: Genie2_223 Start: 107894, Stop: 108277, Start Num: 2

Candidate Starts for Genie2_223:

(Start: 2 @107894 has 72 MA's), (5, 107951), (8, 108044), (13, 108107), (16, 108170), (19, 108209),

Gene: Gibbi_233 Start: 107637, Stop: 108020, Start Num: 2

Candidate Starts for Gibbi_233:

(Start: 2 @107637 has 72 MA's), (5, 107694), (7, 107748), (13, 107850), (16, 107913),

Gene: HangryHippo_209 Start: 106161, Stop: 106520, Start Num: 2

Candidate Starts for HangryHippo_209:

(Start: 2 @106161 has 72 MA's), (Start: 6 @106230 has 1 MA's), (7, 106272), (16, 106413), (18, 106449), (21, 106506), (22, 106509),

Gene: IchabodCrane_219 Start: 107152, Stop: 107535, Start Num: 2
Candidate Starts for IchabodCrane_219:
(Start: 2 @107152 has 72 MA's), (5, 107209), (7, 107263), (13, 107365), (16, 107428),

Gene: JimJam_232 Start: 109073, Stop: 109456, Start Num: 2
Candidate Starts for JimJam_232:
(Start: 2 @109073 has 72 MA's), (5, 109130), (7, 109184), (13, 109286), (16, 109349),

Gene: Jollison_222 Start: 107283, Stop: 107666, Start Num: 2
Candidate Starts for Jollison_222:
(Start: 2 @107283 has 72 MA's), (5, 107340), (7, 107394), (13, 107496), (16, 107559),

Gene: Karimac_225 Start: 107468, Stop: 107851, Start Num: 2
Candidate Starts for Karimac_225:
(Start: 2 @107468 has 72 MA's), (5, 107525), (7, 107579), (8, 107618), (13, 107681), (16, 107744),

Gene: KentuckyRacer_231 Start: 108988, Stop: 109371, Start Num: 2
Candidate Starts for KentuckyRacer_231:
(Start: 2 @108988 has 72 MA's), (5, 109045), (7, 109099), (13, 109201), (16, 109264),

Gene: Larnav_210 Start: 106622, Stop: 106981, Start Num: 2
Candidate Starts for Larnav_210:
(Start: 2 @106622 has 72 MA's), (Start: 6 @106691 has 1 MA's), (7, 106733), (16, 106874), (18, 106910), (21, 106967), (22, 106970),

Gene: Leo04_212 Start: 107187, Stop: 107546, Start Num: 2
Candidate Starts for Leo04_212:
(Start: 2 @107187 has 72 MA's), (Start: 6 @107256 has 1 MA's), (7, 107298), (16, 107439), (18, 107475), (21, 107532), (22, 107535),

Gene: Liandry_211 Start: 106261, Stop: 106620, Start Num: 2
Candidate Starts for Liandry_211:
(Start: 2 @106261 has 72 MA's), (7, 106372), (16, 106513), (21, 106606), (22, 106609),

Gene: LilMartin_209 Start: 104821, Stop: 105180, Start Num: 2
Candidate Starts for LilMartin_209:
(Start: 2 @104821 has 72 MA's), (7, 104932), (16, 105073), (17, 105103), (18, 105109), (20, 105163), (22, 105169),

Gene: LilSaint_213 Start: 106759, Stop: 107142, Start Num: 2
Candidate Starts for LilSaint_213:
(Start: 2 @106759 has 72 MA's), (7, 106870), (10, 106933), (16, 107035), (20, 107125), (22, 107131),

Gene: LukeCage_229 Start: 109747, Stop: 110130, Start Num: 2
Candidate Starts for LukeCage_229:
(Start: 2 @109747 has 72 MA's), (5, 109804), (7, 109858), (13, 109960), (16, 110023),

Gene: Lululemon_208 Start: 105542, Stop: 105901, Start Num: 2
Candidate Starts for Lululemon_208:
(Start: 2 @105542 has 72 MA's), (Start: 6 @105611 has 1 MA's), (7, 105653), (16, 105794), (18, 105830), (21, 105887), (22, 105890),

Gene: Marsus_213 Start: 106565, Stop: 106924, Start Num: 2

Candidate Starts for Marsus_213:

(1, 106538), (Start: 2 @106565 has 72 MA's), (7, 106676), (16, 106817), (18, 106853), (20, 106907), (22, 106913),

Gene: Mildred21_219 Start: 104587, Stop: 104976, Start Num: 2

Candidate Starts for Mildred21_219:

(Start: 2 @104587 has 72 MA's), (7, 104704), (12, 104806), (16, 104869), (18, 104905), (20, 104959), (22, 104965),

Gene: MindFlayer_218 Start: 106668, Stop: 107051, Start Num: 2

Candidate Starts for MindFlayer_218:

(Start: 2 @106668 has 72 MA's), (5, 106725), (7, 106779), (13, 106881), (16, 106944),

Gene: Mugiwara_233 Start: 110247, Stop: 110630, Start Num: 2

Candidate Starts for Mugiwara_233:

(Start: 2 @110247 has 72 MA's), (5, 110304), (7, 110358), (9, 110412), (13, 110460), (14, 110496), (16, 110523), (19, 110562),

Gene: MulchMansion_213 Start: 106455, Stop: 106814, Start Num: 2

Candidate Starts for MulchMansion_213:

(Start: 2 @106455 has 72 MA's), (7, 106566), (16, 106707), (17, 106737), (18, 106743), (20, 106797), (22, 106803),

Gene: Navo_206 Start: 104869, Stop: 105228, Start Num: 2

Candidate Starts for Navo_206:

(Start: 2 @104869 has 72 MA's), (7, 104980), (16, 105121), (21, 105214), (22, 105217),

Gene: NootNoot_208 Start: 105073, Stop: 105432, Start Num: 2

Candidate Starts for NootNoot_208:

(Start: 2 @105073 has 72 MA's), (7, 105184), (16, 105325), (21, 105418), (22, 105421),

Gene: PacManQ_208 Start: 105542, Stop: 105901, Start Num: 2

Candidate Starts for PacManQ_208:

(Start: 2 @105542 has 72 MA's), (Start: 6 @105611 has 1 MA's), (7, 105653), (16, 105794), (18, 105830), (21, 105887), (22, 105890),

Gene: Paradiddles_203 Start: 107448, Stop: 107807, Start Num: 2

Candidate Starts for Paradiddles_203:

(Start: 2 @107448 has 72 MA's), (7, 107559), (16, 107700), (21, 107793), (22, 107796),

Gene: Peebs_208 Start: 106593, Stop: 106952, Start Num: 2

Candidate Starts for Peebs_208:

(Start: 2 @106593 has 72 MA's), (Start: 6 @106662 has 1 MA's), (7, 106704), (16, 106845), (18, 106881), (21, 106938), (22, 106941),

Gene: Pepperwood_211 Start: 106825, Stop: 107184, Start Num: 2

Candidate Starts for Pepperwood_211:

(Start: 2 @106825 has 72 MA's), (7, 106936), (11, 107005), (16, 107077), (18, 107113), (21, 107170), (22, 107173),

Gene: Persimmon_214 Start: 105887, Stop: 106246, Start Num: 2

Candidate Starts for Persimmon_214:

(Start: 2 @105887 has 72 MA's), (7, 105998), (16, 106139), (21, 106232), (22, 106235),

Gene: PinkiePie_211 Start: 106261, Stop: 106620, Start Num: 2
Candidate Starts for PinkiePie_211:
(Start: 2 @106261 has 72 MA's), (7, 106372), (16, 106513), (21, 106606), (22, 106609),

Gene: PumpkinSpice_228 Start: 107889, Stop: 108272, Start Num: 2
Candidate Starts for PumpkinSpice_228:
(Start: 2 @107889 has 72 MA's), (5, 107946), (7, 108000), (13, 108102), (16, 108165),

Gene: Quaran19_225 Start: 107330, Stop: 107713, Start Num: 2
Candidate Starts for Quaran19_225:
(Start: 2 @107330 has 72 MA's), (5, 107387), (7, 107441), (13, 107543), (16, 107606),

Gene: Rikishi_226 Start: 107611, Stop: 107994, Start Num: 2
Candidate Starts for Rikishi_226:
(Start: 2 @107611 has 72 MA's), (5, 107668), (7, 107722), (13, 107824), (16, 107887),

Gene: Riptide_213 Start: 105917, Stop: 106300, Start Num: 2
Candidate Starts for Riptide_213:
(Start: 2 @105917 has 72 MA's), (7, 106028), (10, 106091), (16, 106193), (20, 106283), (22, 106289),

Gene: SaltySpittoon_225 Start: 106872, Stop: 107255, Start Num: 2
Candidate Starts for SaltySpittoon_225:
(Start: 2 @106872 has 72 MA's), (5, 106929), (7, 106983), (13, 107085), (16, 107148),

Gene: Samisti12_215 Start: 108521, Stop: 108811, Start Num: 6
Candidate Starts for Samisti12_215:
(Start: 2 @108452 has 72 MA's), (Start: 6 @108521 has 1 MA's), (7, 108563), (16, 108704), (18, 108740), (21, 108797), (22, 108800),

Gene: Scheme_214 Start: 108097, Stop: 108456, Start Num: 2
Candidate Starts for Scheme_214:
(Start: 2 @108097 has 72 MA's), (Start: 6 @108166 has 1 MA's), (7, 108208), (11, 108277), (16, 108349), (18, 108385), (21, 108442), (22, 108445),

Gene: Shuckle_209 Start: 106819, Stop: 107178, Start Num: 2
Candidate Starts for Shuckle_209:
(Start: 2 @106819 has 72 MA's), (7, 106930), (16, 107071), (21, 107164), (22, 107167),

Gene: Sollertia_224 Start: 107883, Stop: 108266, Start Num: 2
Candidate Starts for Sollertia_224:
(Start: 2 @107883 has 72 MA's), (5, 107940), (8, 108033), (13, 108096), (16, 108159), (19, 108198),

Gene: Spelly_230 Start: 106801, Stop: 107184, Start Num: 2
Candidate Starts for Spelly_230:
(Start: 2 @106801 has 72 MA's), (5, 106858), (7, 106912), (13, 107014), (16, 107077),

Gene: Spilled_232 Start: 108005, Stop: 108388, Start Num: 2
Candidate Starts for Spilled_232:
(Start: 2 @108005 has 72 MA's), (5, 108062), (7, 108116), (13, 108218), (16, 108281),

Gene: Squillium_214 Start: 106263, Stop: 106622, Start Num: 2
Candidate Starts for Squillium_214:

(Start: 2 @106263 has 72 MA's), (7, 106374), (16, 106515), (21, 106608), (22, 106611),

Gene: Stanimal_223 Start: 108255, Stop: 108638, Start Num: 2

Candidate Starts for Stanimal_223:

(Start: 2 @108255 has 72 MA's), (5, 108312), (13, 108468), (16, 108531), (19, 108570),

Gene: StarPlatinum_233 Start: 109978, Stop: 110361, Start Num: 2

Candidate Starts for StarPlatinum_233:

(Start: 2 @109978 has 72 MA's), (5, 110035), (9, 110143), (13, 110191), (14, 110227), (16, 110254), (19, 110293),

Gene: Starbow_222 Start: 106845, Stop: 107228, Start Num: 2

Candidate Starts for Starbow_222:

(Start: 2 @106845 has 72 MA's), (5, 106902), (7, 106956), (13, 107058), (16, 107121),

Gene: Sushi23_211 Start: 107459, Stop: 107818, Start Num: 2

Candidate Starts for Sushi23_211:

(Start: 2 @107459 has 72 MA's), (7, 107570), (11, 107639), (16, 107711), (18, 107747), (21, 107804), (22, 107807),

Gene: Targaryen_210 Start: 107640, Stop: 107999, Start Num: 2

Candidate Starts for Targaryen_210:

(Start: 2 @107640 has 72 MA's), (7, 107751), (16, 107892), (18, 107928), (20, 107982), (22, 107988),

Gene: Teutsch_210 Start: 107281, Stop: 107640, Start Num: 2

Candidate Starts for Teutsch_210:

(Start: 2 @107281 has 72 MA's), (Start: 6 @107350 has 1 MA's), (7, 107392), (16, 107533), (18, 107569), (21, 107626), (22, 107629),

Gene: TomSawyer_229 Start: 109316, Stop: 109699, Start Num: 2

Candidate Starts for TomSawyer_229:

(Start: 2 @109316 has 72 MA's), (5, 109373), (7, 109427), (13, 109529), (16, 109592),

Gene: Tomas_223 Start: 108257, Stop: 108640, Start Num: 3

Candidate Starts for Tomas_223:

(1, 108230), (Start: 3 @108257 has 3 MA's), (5, 108311), (7, 108365), (15, 108509), (16, 108533), (19, 108572),

Gene: Watermoore_210 Start: 107804, Stop: 108163, Start Num: 2

Candidate Starts for Watermoore_210:

(Start: 2 @107804 has 72 MA's), (Start: 6 @107873 has 1 MA's), (7, 107915), (16, 108056), (18, 108092), (21, 108149), (22, 108152),

Gene: WhereRU_211 Start: 106066, Stop: 106425, Start Num: 2

Candidate Starts for WhereRU_211:

(Start: 2 @106066 has 72 MA's), (7, 106177), (16, 106318), (21, 106411), (22, 106414),

Gene: Wipeout_216 Start: 108268, Stop: 108651, Start Num: 2

Candidate Starts for Wipeout_216:

(Start: 2 @108268 has 72 MA's), (5, 108325), (7, 108379), (13, 108481), (16, 108544),

Gene: Wofford_226 Start: 110959, Stop: 111342, Start Num: 2

Candidate Starts for Wofford_226:

(Start: 2 @110959 has 72 MA's), (5, 111016), (9, 111124), (13, 111172), (14, 111208), (16, 111235), (19, 111274),

Gene: Yaboi_228 Start: 107818, Stop: 108201, Start Num: 2

Candidate Starts for Yaboi_228:

(Start: 2 @107818 has 72 MA's), (5, 107875), (8, 107968), (13, 108031), (16, 108094), (19, 108133),