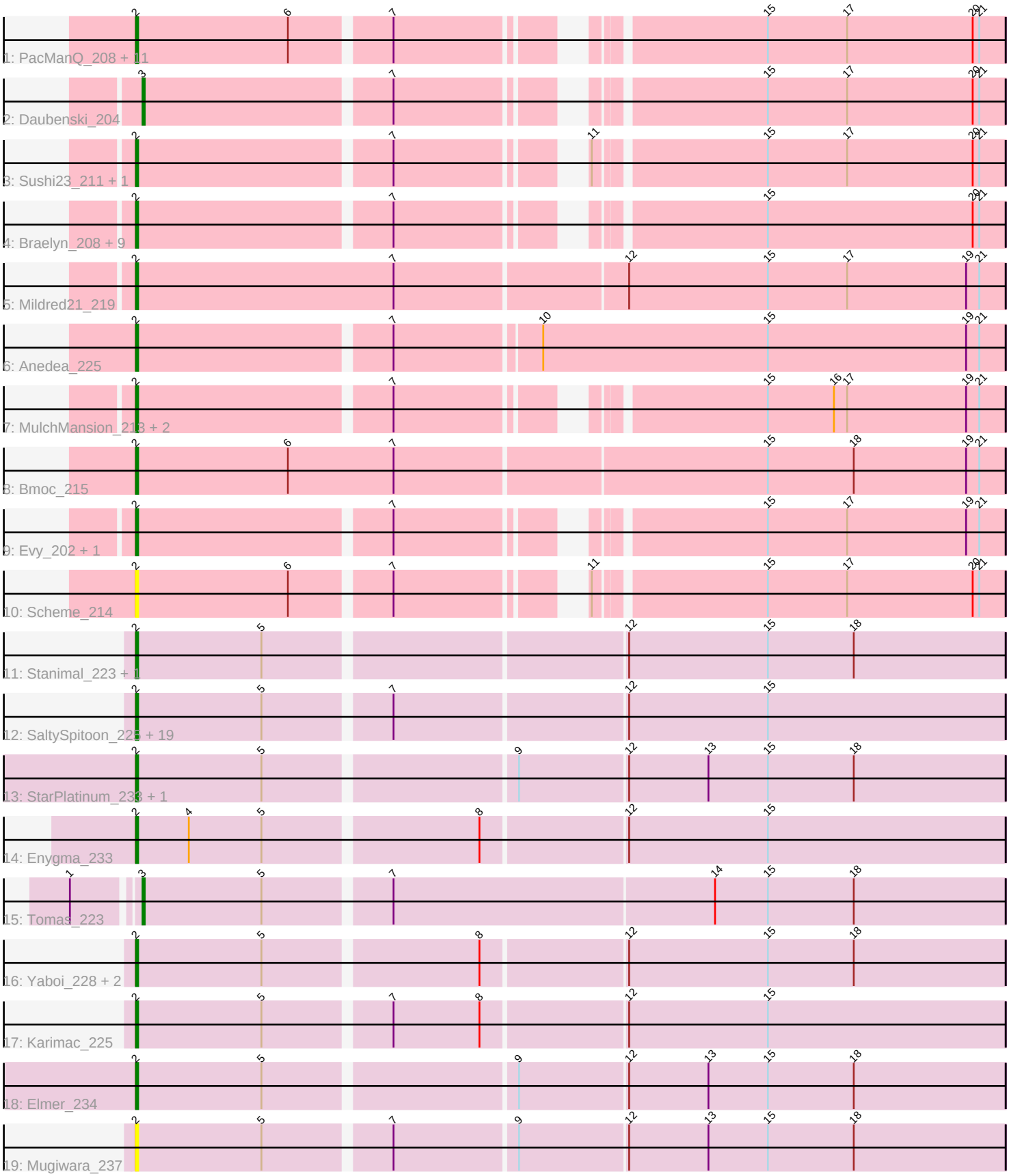
Pham 195596


1: PacManQ_208 + 11
2: Daubenski_204
3: Sushi23_211 + 1
4: Braelyn_208 + 9
5: Mildred21_219
6: Anedea_225
7: MulchMansion_213 + 2
8: Bmoc_215
9: Evy_202 + 1
10: Scheme_214
11: Stanimal_223 + 1
12: SaltySpitoon_225 + 19
13: StarPlatinum_233 + 1
14: Enygma_233
15: Tomas_223
16: Yaboi_228 + 2
17: Karimac_225
18: Elmer_234
19: Mugiwara_237

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 195596 Report

This analysis was run 12/09/24 on database version 580.

Pham number 195596 has 66 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, Leo04_212, Peebs_208, Cross_210
• Track 2 : Daubenski_204
• Track 3 : Sushi23_211, Pepperwood_211
• Track 4 : Braelyn_208, Navo_206, Squillium_214, Bartholomune_212, Liandry_211, Paradiddles_203, WhereRU_211, Persimmon_214, NootNoot_208, PinkiePie_211
• Track 5 : Mildred21_219
• Track 6 : Anedea_225
• Track 7 : MulchMansion_213, Angela_212, LilMartin_209
• Track 8 : Bmoc_215
• Track 9 : Evy_202, Targaryen_210
• Track 10 : Scheme_214
• Track 11 : Stanimal_223, BoomerJR_223
• Track 12 : SaltySpitoon_225, Starbow_222, TomSawyer_229, JimJam_232, Spilled_232, Battuta_223, KentuckyRacer_231, Jollison_222, CeilingFan_237, LukeCage_229, IchabodCrane_219, Bordeaux_223, Birchlyn_224, Spelly_230, Amabiko_229, Gibbi_233, Quaran19_225, Wipeout_216, PumpkinSpice_228, MindFlayer_218
• Track 13 : StarPlatinum_233, Wofford_226
• Track 14 : Enygma_233
• Track 15 : Tomas_223
• Track 16 : Yaboi_228, Sollertia_224, Genie2_223
• Track 17 : Karimac_225
• Track 18 : Elmer_234
• Track 19 : Mugiwara_237

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 60 of the 62 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• Amabiko_229, Anedea_225, Angela_212, Bartholomune_212, Battuta_223, Birchlyn_224, BlueOtter_209, Bmoc_215, BoomerJR_223, Bordeaux_223, Braelyn_208, CeilingFan_237, Cross_210, Cursive_213, EGole_214, Elmer_234, Enygma_233, Evy_202, Genie2_223, Gibbi_233, HangryHippo_209, IchabodCrane_219, JimJam_232, Jollison_222, Karimac_225, KentuckyRacer_231, Larnav_210, Leo04_212, Liandry_211, LilMartin_209, LukeCage_229, Lululemon_208, Mildred21_219, MindFlayer_218, Mugiwara_237, MulchMansion_213, Navo_206, NootNoot_208, PacManQ_208, Paradiddles_203, Peebs_208, Pepperwood_211, Persimmon_214, PinkiePie_211, PumpkinSpice_228, Quaran19_225, SaltySpitoon_225, Scheme_214, 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:
•

Genes that do not have the "Most Annotated" start:
• Daubenski_204, Tomas_223,

Summary by start number:

Start 2:
• Found in 64 of 66 (97.0%) of genes in pham
• Manual Annotations of this start: 60 of 62
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amabiko_229 (BE2), Anedea_225 (BE1), Angela_212 (BE1), Bartholomune_212 (BE1), Battuta_223 (BE2), Birchlyn_224 (BE2), BlueOtter_209 (BE1), Bmoc_215 (BE1), BoomerJR_223 (BE2), Bordeaux_223 (BE2), Braelyn_208 (BE1), CeilingFan_237 (BE2), Cross_210 (BE1), Cursive_213 (BE1), EGole_214 (BE1), Elmer_234 (BE2), Enygma_233 (BE2), Evy_202 (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), LukeCage_229 (BE2), Lululemon_208 (BE1), Mildred21_219 (BE1), MindFlayer_218 (BE2), Mugiwara_237 (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), SaltySpitoon_225 (BE2), Scheme_214 (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 2 of 66 (3.0%) of genes in pham
• Manual Annotations of this start: 2 of 62
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Daubenski_204 (BE1), Tomas_223 (BE2),

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 32 times for cluster BE1.
•Start number 3 was manually annotated 1 time for cluster BE1.

Info for manual annotations of cluster BE2:
•Start number 2 was manually annotated 28 times for cluster BE2.
•Start number 3 was manually annotated 1 time for cluster BE2.

Gene Information:

Gene: Amabiko_229 Start: 107451, Stop: 107834, Start Num: 2
Candidate Starts for Amabiko_229:
(Start: 2 @107451 has 60 MA's), (5, 107508), (7, 107562), (12, 107664), (15, 107727),

Gene: Anedea_225 Start: 108387, Stop: 108770, Start Num: 2
Candidate Starts for Anedea_225:
(Start: 2 @108387 has 60 MA's), (7, 108498), (10, 108561), (15, 108663), (19, 108753), (21, 108759),

Gene: Angela_212 Start: 105457, Stop: 105816, Start Num: 2
Candidate Starts for Angela_212:
(Start: 2 @105457 has 60 MA's), (7, 105568), (15, 105709), (16, 105739), (17, 105745), (19, 105799), (21, 105805),

Gene: Bartholomune_212 Start: 106018, Stop: 106377, Start Num: 2
Candidate Starts for Bartholomune_212:
(Start: 2 @106018 has 60 MA's), (7, 106129), (15, 106270), (20, 106363), (21, 106366),

Gene: Battuta_223 Start: 106766, Stop: 107149, Start Num: 2
Candidate Starts for Battuta_223:
(Start: 2 @106766 has 60 MA's), (5, 106823), (7, 106877), (12, 106979), (15, 107042),

Gene: Birchlyn_224 Start: 104699, Stop: 105082, Start Num: 2
Candidate Starts for Birchlyn_224:
(Start: 2 @104699 has 60 MA's), (5, 104756), (7, 104810), (12, 104912), (15, 104975),

Gene: BlueOtter_209 Start: 106161, Stop: 106520, Start Num: 2
Candidate Starts for BlueOtter_209:
(Start: 2 @106161 has 60 MA's), (6, 106230), (7, 106272), (15, 106413), (17, 106449), (20, 106506), (21, 106509),

Gene: Bmoc_215 Start: 106273, Stop: 106662, Start Num: 2
Candidate Starts for Bmoc_215:
(Start: 2 @106273 has 60 MA's), (6, 106342), (7, 106390), (15, 106555), (18, 106594), (19, 106645), (21, 106651),

Gene: BoomerJR_223 Start: 107769, Stop: 108152, Start Num: 2
Candidate Starts for BoomerJR_223:

(Start: 2 @107769 has 60 MA's), (5, 107826), (12, 107982), (15, 108045), (18, 108084),

Gene: Bordeaux_223 Start: 107349, Stop: 107732, Start Num: 2
Candidate Starts for Bordeaux_223:
(Start: 2 @107349 has 60 MA's), (5, 107406), (7, 107460), (12, 107562), (15, 107625),

Gene: Braelyn_208 Start: 105665, Stop: 106024, Start Num: 2
Candidate Starts for Braelyn_208:
(Start: 2 @105665 has 60 MA's), (7, 105776), (15, 105917), (20, 106010), (21, 106013),

Gene: CeilingFan_237 Start: 108144, Stop: 108527, Start Num: 2
Candidate Starts for CeilingFan_237:
(Start: 2 @108144 has 60 MA's), (5, 108201), (7, 108255), (12, 108357), (15, 108420),

Gene: Cross_210 Start: 106806, Stop: 107165, Start Num: 2
Candidate Starts for Cross_210:
(Start: 2 @106806 has 60 MA's), (6, 106875), (7, 106917), (15, 107058), (17, 107094), (20, 107151), (21, 107154),

Gene: Cursive_213 Start: 106490, Stop: 106849, Start Num: 2
Candidate Starts for Cursive_213:
(Start: 2 @106490 has 60 MA's), (6, 106559), (7, 106601), (15, 106742), (17, 106778), (20, 106835), (21, 106838),

Gene: Daubenski_204 Start: 106854, Stop: 107210, Start Num: 3
Candidate Starts for Daubenski_204:
(Start: 3 @106854 has 2 MA's), (7, 106962), (15, 107103), (17, 107139), (20, 107196), (21, 107199),

Gene: EGole_214 Start: 108503, Stop: 108862, Start Num: 2
Candidate Starts for EGole_214:
(Start: 2 @108503 has 60 MA's), (6, 108572), (7, 108614), (15, 108755), (17, 108791), (20, 108848), (21, 108851),

Gene: Elmer_234 Start: 111093, Stop: 111476, Start Num: 2
Candidate Starts for Elmer_234:
(Start: 2 @111093 has 60 MA's), (5, 111150), (9, 111258), (12, 111306), (13, 111342), (15, 111369), (18, 111408),

Gene: Enygma_233 Start: 110553, Stop: 110936, Start Num: 2
Candidate Starts for Enygma_233:
(Start: 2 @110553 has 60 MA's), (4, 110577), (5, 110610), (8, 110703), (12, 110766), (15, 110829),

Gene: Evy_202 Start: 106956, Stop: 107315, Start Num: 2
Candidate Starts for Evy_202:
(Start: 2 @106956 has 60 MA's), (7, 107067), (15, 107208), (17, 107244), (19, 107298), (21, 107304),

Gene: Genie2_223 Start: 107894, Stop: 108277, Start Num: 2
Candidate Starts for Genie2_223:
(Start: 2 @107894 has 60 MA's), (5, 107951), (8, 108044), (12, 108107), (15, 108170), (18, 108209),

Gene: Gibbi_233 Start: 107637, Stop: 108020, Start Num: 2
Candidate Starts for Gibbi_233:
(Start: 2 @107637 has 60 MA's), (5, 107694), (7, 107748), (12, 107850), (15, 107913),

Gene: HangryHippo_209 Start: 106161, Stop: 106520, Start Num: 2
Candidate Starts for HangryHippo_209:
(Start: 2 @106161 has 60 MA's), (6, 106230), (7, 106272), (15, 106413), (17, 106449), (20, 106506), (21, 106509),

Gene: IchabodCrane_219 Start: 107152, Stop: 107535, Start Num: 2
Candidate Starts for IchabodCrane_219:
(Start: 2 @107152 has 60 MA's), (5, 107209), (7, 107263), (12, 107365), (15, 107428),

Gene: JimJam_232 Start: 109073, Stop: 109456, Start Num: 2
Candidate Starts for JimJam_232:
(Start: 2 @109073 has 60 MA's), (5, 109130), (7, 109184), (12, 109286), (15, 109349),

Gene: Jollison_222 Start: 107283, Stop: 107666, Start Num: 2
Candidate Starts for Jollison_222:
(Start: 2 @107283 has 60 MA's), (5, 107340), (7, 107394), (12, 107496), (15, 107559),

Gene: Karimac_225 Start: 107468, Stop: 107851, Start Num: 2
Candidate Starts for Karimac_225:
(Start: 2 @107468 has 60 MA's), (5, 107525), (7, 107579), (8, 107618), (12, 107681), (15, 107744),

Gene: KentuckyRacer_231 Start: 108988, Stop: 109371, Start Num: 2
Candidate Starts for KentuckyRacer_231:
(Start: 2 @108988 has 60 MA's), (5, 109045), (7, 109099), (12, 109201), (15, 109264),

Gene: Larnav_210 Start: 106622, Stop: 106981, Start Num: 2
Candidate Starts for Larnav_210:
(Start: 2 @106622 has 60 MA's), (6, 106691), (7, 106733), (15, 106874), (17, 106910), (20, 106967), (21, 106970),

Gene: Leo04_212 Start: 107187, Stop: 107546, Start Num: 2
Candidate Starts for Leo04_212:
(Start: 2 @107187 has 60 MA's), (6, 107256), (7, 107298), (15, 107439), (17, 107475), (20, 107532), (21, 107535),

Gene: Liandry_211 Start: 106261, Stop: 106620, Start Num: 2
Candidate Starts for Liandry_211:
(Start: 2 @106261 has 60 MA's), (7, 106372), (15, 106513), (20, 106606), (21, 106609),

Gene: LilMartin_209 Start: 104821, Stop: 105180, Start Num: 2
Candidate Starts for LilMartin_209:
(Start: 2 @104821 has 60 MA's), (7, 104932), (15, 105073), (16, 105103), (17, 105109), (19, 105163), (21, 105169),

Gene: LukeCage_229 Start: 109747, Stop: 110130, Start Num: 2
Candidate Starts for LukeCage_229:
(Start: 2 @109747 has 60 MA's), (5, 109804), (7, 109858), (12, 109960), (15, 110023),

Gene: Lululemon_208 Start: 105542, Stop: 105901, Start Num: 2
Candidate Starts for Lululemon_208:
(Start: 2 @105542 has 60 MA's), (6, 105611), (7, 105653), (15, 105794), (17, 105830), (20, 105887), (21, 105890),

Gene: Mildred21_219 Start: 104587, Stop: 104976, Start Num: 2
Candidate Starts for Mildred21_219:
(Start: 2 @104587 has 60 MA's), (7, 104704), (12, 104806), (15, 104869), (17, 104905), (19, 104959), (21, 104965),

Gene: MindFlayer_218 Start: 106668, Stop: 107051, Start Num: 2
Candidate Starts for MindFlayer_218:
(Start: 2 @106668 has 60 MA's), (5, 106725), (7, 106779), (12, 106881), (15, 106944),

Gene: Mugiwara_237 Start: 110247, Stop: 110630, Start Num: 2
Candidate Starts for Mugiwara_237:
(Start: 2 @110247 has 60 MA's), (5, 110304), (7, 110358), (9, 110412), (12, 110460), (13, 110496), (15, 110523), (18, 110562),

Gene: MulchMansion_213 Start: 106455, Stop: 106814, Start Num: 2
Candidate Starts for MulchMansion_213:
(Start: 2 @106455 has 60 MA's), (7, 106566), (15, 106707), (16, 106737), (17, 106743), (19, 106797), (21, 106803),

Gene: Navo_206 Start: 104869, Stop: 105228, Start Num: 2
Candidate Starts for Navo_206:
(Start: 2 @104869 has 60 MA's), (7, 104980), (15, 105121), (20, 105214), (21, 105217),

Gene: NootNoot_208 Start: 105073, Stop: 105432, Start Num: 2
Candidate Starts for NootNoot_208:
(Start: 2 @105073 has 60 MA's), (7, 105184), (15, 105325), (20, 105418), (21, 105421),

Gene: PacManQ_208 Start: 105542, Stop: 105901, Start Num: 2
Candidate Starts for PacManQ_208:
(Start: 2 @105542 has 60 MA's), (6, 105611), (7, 105653), (15, 105794), (17, 105830), (20, 105887), (21, 105890),

Gene: Paradiddles_203 Start: 107448, Stop: 107807, Start Num: 2
Candidate Starts for Paradiddles_203:
(Start: 2 @107448 has 60 MA's), (7, 107559), (15, 107700), (20, 107793), (21, 107796),

Gene: Peebs_208 Start: 106593, Stop: 106952, Start Num: 2
Candidate Starts for Peebs_208:
(Start: 2 @106593 has 60 MA's), (6, 106662), (7, 106704), (15, 106845), (17, 106881), (20, 106938), (21, 106941),

Gene: Pepperwood_211 Start: 106825, Stop: 107184, Start Num: 2
Candidate Starts for Pepperwood_211:
(Start: 2 @106825 has 60 MA's), (7, 106936), (11, 107005), (15, 107077), (17, 107113), (20, 107170), (21, 107173),

Gene: Persimmon_214 Start: 105887, Stop: 106246, Start Num: 2
Candidate Starts for Persimmon_214:
(Start: 2 @105887 has 60 MA's), (7, 105998), (15, 106139), (20, 106232), (21, 106235),

Gene: PinkiePie_211 Start: 106261, Stop: 106620, Start Num: 2
Candidate Starts for PinkiePie_211:

(Start: 2 @106261 has 60 MA's), (7, 106372), (15, 106513), (20, 106606), (21, 106609),

Gene: PumpkinSpice_228 Start: 107889, Stop: 108272, Start Num: 2
Candidate Starts for PumpkinSpice_228:
(Start: 2 @107889 has 60 MA's), (5, 107946), (7, 108000), (12, 108102), (15, 108165),

Gene: Quaran19_225 Start: 107330, Stop: 107713, Start Num: 2
Candidate Starts for Quaran19_225:
(Start: 2 @107330 has 60 MA's), (5, 107387), (7, 107441), (12, 107543), (15, 107606),

Gene: SaltySpitoon_225 Start: 106872, Stop: 107255, Start Num: 2
Candidate Starts for SaltySpitoon_225:
(Start: 2 @106872 has 60 MA's), (5, 106929), (7, 106983), (12, 107085), (15, 107148),

Gene: Scheme_214 Start: 108097, Stop: 108456, Start Num: 2
Candidate Starts for Scheme_214:
(Start: 2 @108097 has 60 MA's), (6, 108166), (7, 108208), (11, 108277), (15, 108349), (17, 108385), (20, 108442), (21, 108445),

Gene: Sollertia_224 Start: 107883, Stop: 108266, Start Num: 2
Candidate Starts for Sollertia_224:
(Start: 2 @107883 has 60 MA's), (5, 107940), (8, 108033), (12, 108096), (15, 108159), (18, 108198),

Gene: Spelly_230 Start: 106801, Stop: 107184, Start Num: 2
Candidate Starts for Spelly_230:
(Start: 2 @106801 has 60 MA's), (5, 106858), (7, 106912), (12, 107014), (15, 107077),

Gene: Spilled_232 Start: 108005, Stop: 108388, Start Num: 2
Candidate Starts for Spilled_232:
(Start: 2 @108005 has 60 MA's), (5, 108062), (7, 108116), (12, 108218), (15, 108281),

Gene: Squillium_214 Start: 106263, Stop: 106622, Start Num: 2
Candidate Starts for Squillium_214:
(Start: 2 @106263 has 60 MA's), (7, 106374), (15, 106515), (20, 106608), (21, 106611),

Gene: Stanimal_223 Start: 108255, Stop: 108638, Start Num: 2
Candidate Starts for Stanimal_223:
(Start: 2 @108255 has 60 MA's), (5, 108312), (12, 108468), (15, 108531), (18, 108570),

Gene: StarPlatinum_233 Start: 109978, Stop: 110361, Start Num: 2
Candidate Starts for StarPlatinum_233:
(Start: 2 @109978 has 60 MA's), (5, 110035), (9, 110143), (12, 110191), (13, 110227), (15, 110254), (18, 110293),

Gene: Starbow_222 Start: 106845, Stop: 107228, Start Num: 2
Candidate Starts for Starbow_222:
(Start: 2 @106845 has 60 MA's), (5, 106902), (7, 106956), (12, 107058), (15, 107121),

Gene: Sushi23_211 Start: 107459, Stop: 107818, Start Num: 2
Candidate Starts for Sushi23_211:
(Start: 2 @107459 has 60 MA's), (7, 107570), (11, 107639), (15, 107711), (17, 107747), (20, 107804), (21, 107807),

Gene: Targaryen_210 Start: 107640, Stop: 107999, Start Num: 2
Candidate Starts for Targaryen_210:
(Start: 2 @107640 has 60 MA's), (7, 107751), (15, 107892), (17, 107928), (19, 107982), (21, 107988),

Gene: Teutsch_210 Start: 107281, Stop: 107640, Start Num: 2
Candidate Starts for Teutsch_210:
(Start: 2 @107281 has 60 MA's), (6, 107350), (7, 107392), (15, 107533), (17, 107569), (20, 107626), (21, 107629),

Gene: TomSawyer_229 Start: 109316, Stop: 109699, Start Num: 2
Candidate Starts for TomSawyer_229:
(Start: 2 @109316 has 60 MA's), (5, 109373), (7, 109427), (12, 109529), (15, 109592),

Gene: Tomas_223 Start: 108257, Stop: 108640, Start Num: 3
Candidate Starts for Tomas_223:
(1, 108230), (Start: 3 @108257 has 2 MA's), (5, 108311), (7, 108365), (14, 108509), (15, 108533), (18, 108572),

Gene: Watermoore_210 Start: 107804, Stop: 108163, Start Num: 2
Candidate Starts for Watermoore_210:
(Start: 2 @107804 has 60 MA's), (6, 107873), (7, 107915), (15, 108056), (17, 108092), (20, 108149), (21, 108152),

Gene: WhereRU_211 Start: 106066, Stop: 106425, Start Num: 2
Candidate Starts for WhereRU_211:
(Start: 2 @106066 has 60 MA's), (7, 106177), (15, 106318), (20, 106411), (21, 106414),

Gene: Wipeout_216 Start: 108268, Stop: 108651, Start Num: 2
Candidate Starts for Wipeout_216:
(Start: 2 @108268 has 60 MA's), (5, 108325), (7, 108379), (12, 108481), (15, 108544),

Gene: Wofford_226 Start: 110959, Stop: 111342, Start Num: 2
Candidate Starts for Wofford_226:
(Start: 2 @110959 has 60 MA's), (5, 111016), (9, 111124), (12, 111172), (13, 111208), (15, 111235), (18, 111274),

Gene: Yaboi_228 Start: 107818, Stop: 108201, Start Num: 2
Candidate Starts for Yaboi_228:
(Start: 2 @107818 has 60 MA's), (5, 107875), (8, 107968), (12, 108031), (15, 108094), (18, 108133),