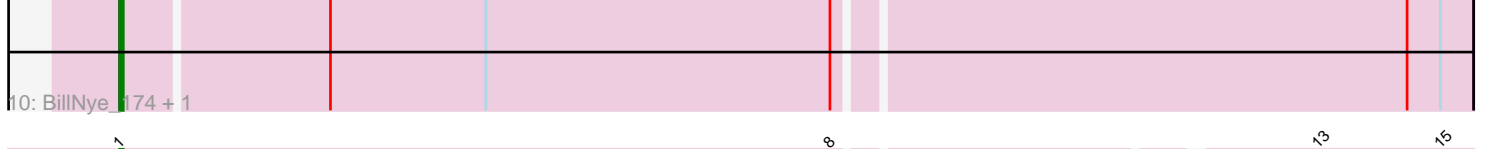
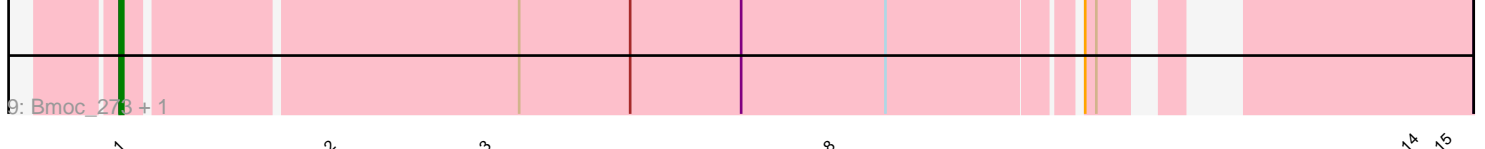
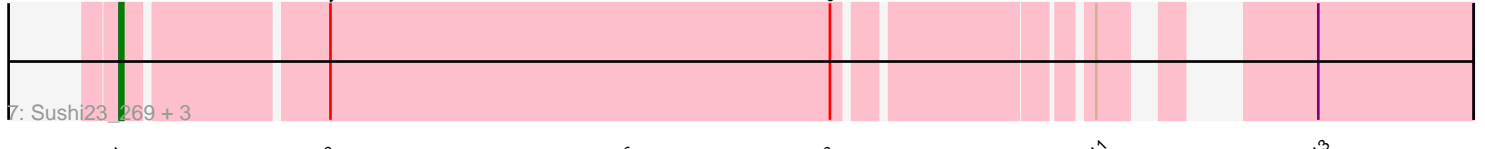
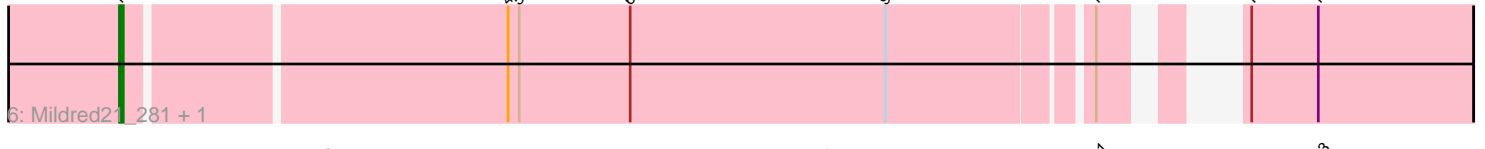
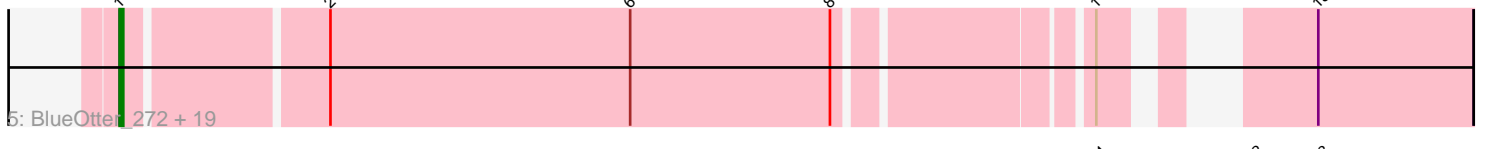
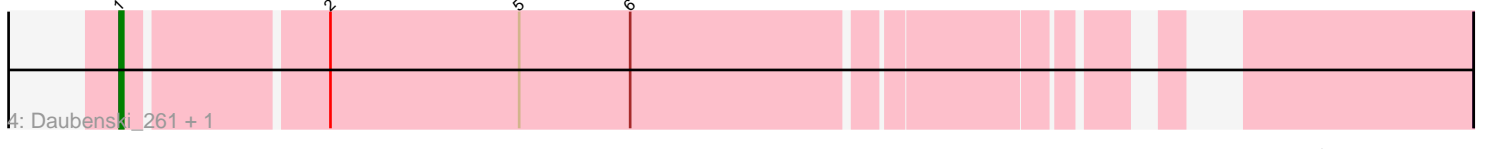
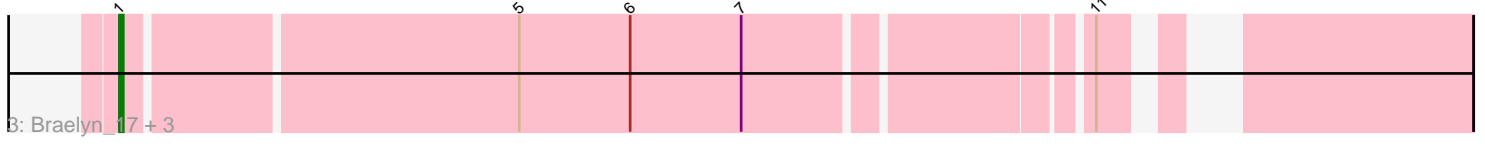
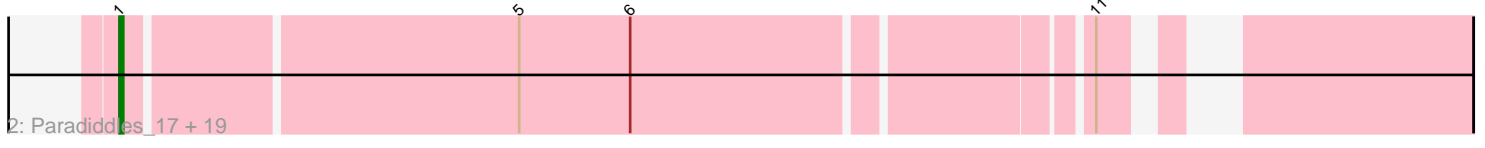
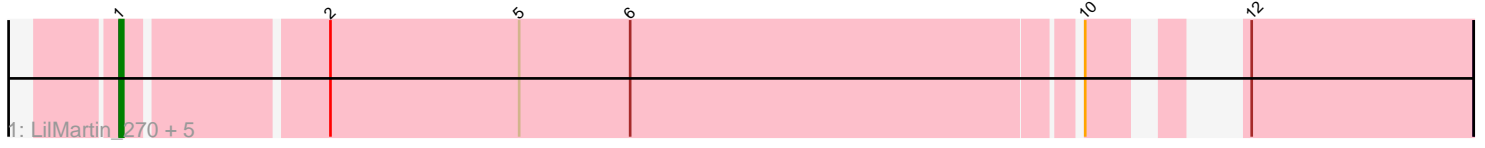


Pham 154712



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 154712 Report

This analysis was run 04/12/24 on database version 558.

Pham number 154712 has 66 members, 10 are drafts.

Phages represented in each track:

- Track 1 : LilMartin_270, MulchMansion_18, Angela_18, MulchMansion_274, Angela_275, LilMartin_18
- Track 2 : Paradiddles_17, Squillium_17, Evy_18, Bartholomune_17, Liandry_17, NootNoot_17, Squillium_269, Paradiddles_258, Warpy_273, Liandry_266, Jay2Jay_21, Bartholomune_267, Warpy_21, Targaryen_16, PinkiePie_267, PinkiePie_17, Evy_256, Jay2Jay_276, Targaryen_267, NootNoot_262
- Track 3 : Braelyn_17, Persimmon_267, Braelyn_262, Persimmon_16
- Track 4 : Daubenski_261, Daubenski_17
- Track 5 : BlueOtter_272, PacManQ_270, Leo04_269, HangryHippo_20, Watermoore_18, Cursive_16, Lululemon_269, BlueOtter_20, Watermoore_265, Leo04_18, Cursive_270, Cross_266, Pepperwood_19, HangryHippo_272, Pepperwood_268, Cross_18, Peebs_265, Peebs_18, Lululemon_19, PacManQ_19
- Track 6 : Mildred21_281, Mildred21_18
- Track 7 : Sushi23_269, Sushi23_19, Larnav_281, Larnav_22
- Track 8 : Tribute_264, Tribute_18
- Track 9 : Bmoc_273, Bmoc_17
- Track 10 : BillNye_174, Circinus_175
- Track 11 : Wakanda_187, Muntaha_188

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 56 of the 56 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Angela_18, Angela_275, Bartholomune_17, Bartholomune_267, BillNye_174, BlueOtter_20, BlueOtter_272, Bmoc_17, Bmoc_273, Braelyn_17, Braelyn_262, Circinus_175, Cross_18, Cross_266, Cursive_16, Cursive_270, Daubenski_17, Daubenski_261, Evy_18, Evy_256, HangryHippo_20, HangryHippo_272, Jay2Jay_21, Jay2Jay_276, Larnav_22, Larnav_281, Leo04_18, Leo04_269, Liandry_17, Liandry_266, LilMartin_18, LilMartin_270, Lululemon_19, Lululemon_269, Mildred21_18, Mildred21_281, MulchMansion_18, MulchMansion_274, Muntaha_188, NootNoot_17, NootNoot_262, PacManQ_19, PacManQ_270, Paradiddles_17, Paradiddles_258, Peebs_18, Peebs_265,

Pepperwood_19, Pepperwood_268, Persimmon_16, Persimmon_267, PinkiePie_17, PinkiePie_267, Squillium_17, Squillium_269, Sushi23_19, Sushi23_269, Targaryen_16, Targaryen_267, Tribute_18, Tribute_264, Wakanda_187, Warpy_21, Warpy_273, Watermoore_18, Watermoore_265,

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

-

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

-

Summary by start number:

Start 1:

- Found in 66 of 66 (100.0%) of genes in pham
- Manual Annotations of this start: 56 of 56
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Angela_18 (BE1), Angela_275 (BE1), Bartholomune_17 (BE1), Bartholomune_267 (BE1), BillNye_174 (BK2), BlueOtter_20 (BE1), BlueOtter_272 (BE1), Bmoc_17 (BE1), Bmoc_273 (BE1), Braelyn_17 (BE1), Braelyn_262 (BE1), Circinus_175 (BK2), Cross_18 (BE1), Cross_266 (BE1), Cursive_16 (BE1), Cursive_270 (BE1), Daubenski_17 (BE1), Daubenski_261 (BE1), Evy_18 (BE1), Evy_256 (BE1), HangryHippo_20 (BE1), HangryHippo_272 (BE1), Jay2Jay_21 (BE1), Jay2Jay_276 (BE1), Larnav_22 (BE1), Larnav_281 (BE1), Leo04_18 (BE1), Leo04_269 (BE1), Liandry_17 (BE1), Liandry_266 (BE1), LilMartin_18 (BE1), LilMartin_270 (BE1), Lululemon_19 (BE1), Lululemon_269 (BE1), Mildred21_18 (BE1), Mildred21_281 (BE1), MulchMansion_18 (BE1), MulchMansion_274 (BE1), Muntaha_188 (BK2), NootNoot_17 (BE1), NootNoot_262 (BE1), PacManQ_19 (BE1), PacManQ_270 (BE1), Paradiddles_17 (BE1), Paradiddles_258 (BE1), Peebs_18 (BE1), Peebs_265 (BE1), Pepperwood_19 (BE1), Pepperwood_268 (BE1), Persimmon_16 (BE1), Persimmon_267 (BE1), PinkiePie_17 (BE1), PinkiePie_267 (BE1), Squillium_17 (BE1), Squillium_269 (BE1), Sushi23_19 (BE1), Sushi23_269 (BE1), Targaryen_16 (BE1), Targaryen_267 (BE1), Tribute_18 (BE1), Tribute_264 (BE1), Wakanda_187 (BK2), Warpy_21 (BE1), Warpy_273 (BE1), Watermoore_18 (BE1), Watermoore_265 (BE1),

Summary by clusters:

There are 2 clusters represented in this pham: BE1, BK2,

Info for manual annotations of cluster BE1:

- Start number 1 was manually annotated 52 times for cluster BE1.

Info for manual annotations of cluster BK2:

- Start number 1 was manually annotated 4 times for cluster BK2.

Gene Information:

Gene: Angela_18 Start: 9194, Stop: 8865, Start Num: 1

Candidate Starts for Angela_18:

(Start: 1 @9194 has 56 MA's), (2, 9143), (5, 9092), (6, 9062), (10, 8945), (12, 8924),

Gene: Angela_275 Start: 131597, Stop: 131268, Start Num: 1
Candidate Starts for Angela_275:
(Start: 1 @131597 has 56 MA's), (2, 131546), (5, 131495), (6, 131465), (10, 131348), (12, 131327),

Gene: Bartholomune_17 Start: 8606, Stop: 8283, Start Num: 1
Candidate Starts for Bartholomune_17:
(Start: 1 @8606 has 56 MA's), (5, 8504), (6, 8474), (11, 8360),

Gene: Bartholomune_267 Start: 129705, Stop: 129382, Start Num: 1
Candidate Starts for Bartholomune_267:
(Start: 1 @129705 has 56 MA's), (5, 129603), (6, 129573), (11, 129459),

Gene: BillNye_174 Start: 97001, Stop: 97357, Start Num: 1
Candidate Starts for BillNye_174:
(Start: 1 @97001 has 56 MA's), (2, 97055), (3, 97097), (8, 97190), (14, 97340), (15, 97349),

Gene: BlueOtter_272 Start: 129979, Stop: 129656, Start Num: 1
Candidate Starts for BlueOtter_272:
(Start: 1 @129979 has 56 MA's), (2, 129928), (6, 129847), (8, 129793), (11, 129733), (13, 129697),

Gene: BlueOtter_20 Start: 8892, Stop: 8569, Start Num: 1
Candidate Starts for BlueOtter_20:
(Start: 1 @8892 has 56 MA's), (2, 8841), (6, 8760), (8, 8706), (11, 8646), (13, 8610),

Gene: Bmoc_273 Start: 130823, Stop: 130494, Start Num: 1
Candidate Starts for Bmoc_273:
(Start: 1 @130823 has 56 MA's), (5, 130721), (6, 130691), (7, 130661), (9, 130622), (10, 130574), (11, 130571),

Gene: Bmoc_17 Start: 9001, Stop: 8672, Start Num: 1
Candidate Starts for Bmoc_17:
(Start: 1 @9001 has 56 MA's), (5, 8899), (6, 8869), (7, 8839), (9, 8800), (10, 8752), (11, 8749),

Gene: Braelyn_17 Start: 8649, Stop: 8326, Start Num: 1
Candidate Starts for Braelyn_17:
(Start: 1 @8649 has 56 MA's), (5, 8547), (6, 8517), (7, 8487), (11, 8403),

Gene: Braelyn_262 Start: 129059, Stop: 128736, Start Num: 1
Candidate Starts for Braelyn_262:
(Start: 1 @129059 has 56 MA's), (5, 128957), (6, 128927), (7, 128897), (11, 128813),

Gene: Circinus_175 Start: 96966, Stop: 97322, Start Num: 1
Candidate Starts for Circinus_175:
(Start: 1 @96966 has 56 MA's), (2, 97020), (3, 97062), (8, 97155), (14, 97305), (15, 97314),

Gene: Cross_266 Start: 130625, Stop: 130302, Start Num: 1
Candidate Starts for Cross_266:
(Start: 1 @130625 has 56 MA's), (2, 130574), (6, 130493), (8, 130439), (11, 130379), (13, 130343),

Gene: Cross_18 Start: 8893, Stop: 8570, Start Num: 1
Candidate Starts for Cross_18:
(Start: 1 @8893 has 56 MA's), (2, 8842), (6, 8761), (8, 8707), (11, 8647), (13, 8611),

Gene: Cursive_16 Start: 7710, Stop: 7387, Start Num: 1

Candidate Starts for Cursive_16:

(Start: 1 @7710 has 56 MA's), (2, 7659), (6, 7578), (8, 7524), (11, 7464), (13, 7428),

Gene: Cursive_270 Start: 129719, Stop: 129396, Start Num: 1

Candidate Starts for Cursive_270:

(Start: 1 @129719 has 56 MA's), (2, 129668), (6, 129587), (8, 129533), (11, 129473), (13, 129437),

Gene: Daubenski_261 Start: 130919, Stop: 130596, Start Num: 1

Candidate Starts for Daubenski_261:

(Start: 1 @130919 has 56 MA's), (2, 130868), (5, 130817), (6, 130787),

Gene: Daubenski_17 Start: 8543, Stop: 8220, Start Num: 1

Candidate Starts for Daubenski_17:

(Start: 1 @8543 has 56 MA's), (2, 8492), (5, 8441), (6, 8411),

Gene: Evy_18 Start: 9073, Stop: 8750, Start Num: 1

Candidate Starts for Evy_18:

(Start: 1 @9073 has 56 MA's), (5, 8971), (6, 8941), (11, 8827),

Gene: Evy_256 Start: 130802, Stop: 130479, Start Num: 1

Candidate Starts for Evy_256:

(Start: 1 @130802 has 56 MA's), (5, 130700), (6, 130670), (11, 130556),

Gene: HangryHippo_20 Start: 8892, Stop: 8569, Start Num: 1

Candidate Starts for HangryHippo_20:

(Start: 1 @8892 has 56 MA's), (2, 8841), (6, 8760), (8, 8706), (11, 8646), (13, 8610),

Gene: HangryHippo_272 Start: 129979, Stop: 129656, Start Num: 1

Candidate Starts for HangryHippo_272:

(Start: 1 @129979 has 56 MA's), (2, 129928), (6, 129847), (8, 129793), (11, 129733), (13, 129697),

Gene: Jay2Jay_21 Start: 9262, Stop: 8939, Start Num: 1

Candidate Starts for Jay2Jay_21:

(Start: 1 @9262 has 56 MA's), (5, 9160), (6, 9130), (11, 9016),

Gene: Jay2Jay_276 Start: 131355, Stop: 131032, Start Num: 1

Candidate Starts for Jay2Jay_276:

(Start: 1 @131355 has 56 MA's), (5, 131253), (6, 131223), (11, 131109),

Gene: Larnav_281 Start: 130898, Stop: 130575, Start Num: 1

Candidate Starts for Larnav_281:

(Start: 1 @130898 has 56 MA's), (2, 130847), (8, 130712), (11, 130652), (13, 130616),

Gene: Larnav_22 Start: 8893, Stop: 8570, Start Num: 1

Candidate Starts for Larnav_22:

(Start: 1 @8893 has 56 MA's), (2, 8842), (8, 8707), (11, 8647), (13, 8611),

Gene: Leo04_269 Start: 131009, Stop: 130686, Start Num: 1

Candidate Starts for Leo04_269:

(Start: 1 @131009 has 56 MA's), (2, 130958), (6, 130877), (8, 130823), (11, 130763), (13, 130727),

Gene: Leo04_18 Start: 8891, Stop: 8568, Start Num: 1
Candidate Starts for Leo04_18:
(Start: 1 @8891 has 56 MA's), (2, 8840), (6, 8759), (8, 8705), (11, 8645), (13, 8609),

Gene: Liandry_17 Start: 8605, Stop: 8282, Start Num: 1
Candidate Starts for Liandry_17:
(Start: 1 @8605 has 56 MA's), (5, 8503), (6, 8473), (11, 8359),

Gene: Liandry_266 Start: 130126, Stop: 129803, Start Num: 1
Candidate Starts for Liandry_266:
(Start: 1 @130126 has 56 MA's), (5, 130024), (6, 129994), (11, 129880),

Gene: LilMartin_270 Start: 130486, Stop: 130157, Start Num: 1
Candidate Starts for LilMartin_270:
(Start: 1 @130486 has 56 MA's), (2, 130435), (5, 130384), (6, 130354), (10, 130237), (12, 130216),

Gene: LilMartin_18 Start: 9142, Stop: 8813, Start Num: 1
Candidate Starts for LilMartin_18:
(Start: 1 @9142 has 56 MA's), (2, 9091), (5, 9040), (6, 9010), (10, 8893), (12, 8872),

Gene: Lululemon_269 Start: 129164, Stop: 128841, Start Num: 1
Candidate Starts for Lululemon_269:
(Start: 1 @129164 has 56 MA's), (2, 129113), (6, 129032), (8, 128978), (11, 128918), (13, 128882),

Gene: Lululemon_19 Start: 8272, Stop: 7949, Start Num: 1
Candidate Starts for Lululemon_19:
(Start: 1 @8272 has 56 MA's), (2, 8221), (6, 8140), (8, 8086), (11, 8026), (13, 7990),

Gene: Mildred21_281 Start: 129953, Stop: 129624, Start Num: 1
Candidate Starts for Mildred21_281:
(Start: 1 @129953 has 56 MA's), (4, 129854), (5, 129851), (6, 129821), (9, 129752), (11, 129701), (12, 129683), (13, 129665),

Gene: Mildred21_18 Start: 8795, Stop: 8466, Start Num: 1
Candidate Starts for Mildred21_18:
(Start: 1 @8795 has 56 MA's), (4, 8696), (5, 8693), (6, 8663), (9, 8594), (11, 8543), (12, 8525), (13, 8507),

Gene: MulchMansion_18 Start: 9142, Stop: 8813, Start Num: 1
Candidate Starts for MulchMansion_18:
(Start: 1 @9142 has 56 MA's), (2, 9091), (5, 9040), (6, 9010), (10, 8893), (12, 8872),

Gene: MulchMansion_274 Start: 132120, Stop: 131791, Start Num: 1
Candidate Starts for MulchMansion_274:
(Start: 1 @132120 has 56 MA's), (2, 132069), (5, 132018), (6, 131988), (10, 131871), (12, 131850),

Gene: Muntaha_188 Start: 96660, Stop: 97010, Start Num: 1
Candidate Starts for Muntaha_188:
(Start: 1 @96660 has 56 MA's), (8, 96852), (13, 96969), (15, 97002),

Gene: NootNoot_17 Start: 8616, Stop: 8293, Start Num: 1
Candidate Starts for NootNoot_17:
(Start: 1 @8616 has 56 MA's), (5, 8514), (6, 8484), (11, 8370),

Gene: NootNoot_262 Start: 128915, Stop: 128592, Start Num: 1
Candidate Starts for NootNoot_262:
(Start: 1 @128915 has 56 MA's), (5, 128813), (6, 128783), (11, 128669),

Gene: PacManQ_270 Start: 129164, Stop: 128841, Start Num: 1
Candidate Starts for PacManQ_270:
(Start: 1 @129164 has 56 MA's), (2, 129113), (6, 129032), (8, 128978), (11, 128918), (13, 128882),

Gene: PacManQ_19 Start: 8272, Stop: 7949, Start Num: 1
Candidate Starts for PacManQ_19:
(Start: 1 @8272 has 56 MA's), (2, 8221), (6, 8140), (8, 8086), (11, 8026), (13, 7990),

Gene: Paradiddles_17 Start: 8606, Stop: 8283, Start Num: 1
Candidate Starts for Paradiddles_17:
(Start: 1 @8606 has 56 MA's), (5, 8504), (6, 8474), (11, 8360),

Gene: Paradiddles_258 Start: 131314, Stop: 130991, Start Num: 1
Candidate Starts for Paradiddles_258:
(Start: 1 @131314 has 56 MA's), (5, 131212), (6, 131182), (11, 131068),

Gene: Peebs_265 Start: 130866, Stop: 130543, Start Num: 1
Candidate Starts for Peebs_265:
(Start: 1 @130866 has 56 MA's), (2, 130815), (6, 130734), (8, 130680), (11, 130620), (13, 130584),

Gene: Peebs_18 Start: 8891, Stop: 8568, Start Num: 1
Candidate Starts for Peebs_18:
(Start: 1 @8891 has 56 MA's), (2, 8840), (6, 8759), (8, 8705), (11, 8645), (13, 8609),

Gene: Pepperwood_19 Start: 9046, Stop: 8723, Start Num: 1
Candidate Starts for Pepperwood_19:
(Start: 1 @9046 has 56 MA's), (2, 8995), (6, 8914), (8, 8860), (11, 8800), (13, 8764),

Gene: Pepperwood_268 Start: 130831, Stop: 130508, Start Num: 1
Candidate Starts for Pepperwood_268:
(Start: 1 @130831 has 56 MA's), (2, 130780), (6, 130699), (8, 130645), (11, 130585), (13, 130549),

Gene: Persimmon_267 Start: 129246, Stop: 128923, Start Num: 1
Candidate Starts for Persimmon_267:
(Start: 1 @129246 has 56 MA's), (5, 129144), (6, 129114), (7, 129084), (11, 129000),

Gene: Persimmon_16 Start: 8435, Stop: 8112, Start Num: 1
Candidate Starts for Persimmon_16:
(Start: 1 @8435 has 56 MA's), (5, 8333), (6, 8303), (7, 8273), (11, 8189),

Gene: PinkiePie_267 Start: 130127, Stop: 129804, Start Num: 1
Candidate Starts for PinkiePie_267:
(Start: 1 @130127 has 56 MA's), (5, 130025), (6, 129995), (11, 129881),

Gene: PinkiePie_17 Start: 8606, Stop: 8283, Start Num: 1
Candidate Starts for PinkiePie_17:
(Start: 1 @8606 has 56 MA's), (5, 8504), (6, 8474), (11, 8360),

Gene: Squillium_17 Start: 8605, Stop: 8282, Start Num: 1

Candidate Starts for Squillium_17:

(Start: 1 @8605 has 56 MA's), (5, 8503), (6, 8473), (11, 8359),

Gene: Squillium_269 Start: 130129, Stop: 129806, Start Num: 1

Candidate Starts for Squillium_269:

(Start: 1 @130129 has 56 MA's), (5, 130027), (6, 129997), (11, 129883),

Gene: Sushi23_269 Start: 131736, Stop: 131413, Start Num: 1

Candidate Starts for Sushi23_269:

(Start: 1 @131736 has 56 MA's), (2, 131685), (8, 131550), (11, 131490), (13, 131454),

Gene: Sushi23_19 Start: 8893, Stop: 8570, Start Num: 1

Candidate Starts for Sushi23_19:

(Start: 1 @8893 has 56 MA's), (2, 8842), (8, 8707), (11, 8647), (13, 8611),

Gene: Targaryen_16 Start: 9069, Stop: 8746, Start Num: 1

Candidate Starts for Targaryen_16:

(Start: 1 @9069 has 56 MA's), (5, 8967), (6, 8937), (11, 8823),

Gene: Targaryen_267 Start: 132745, Stop: 132422, Start Num: 1

Candidate Starts for Targaryen_267:

(Start: 1 @132745 has 56 MA's), (5, 132643), (6, 132613), (11, 132499),

Gene: Tribute_264 Start: 131437, Stop: 131114, Start Num: 1

Candidate Starts for Tribute_264:

(Start: 1 @131437 has 56 MA's), (2, 131386), (6, 131305), (8, 131251), (11, 131191), (13, 131155),

Gene: Tribute_18 Start: 8893, Stop: 8570, Start Num: 1

Candidate Starts for Tribute_18:

(Start: 1 @8893 has 56 MA's), (2, 8842), (6, 8761), (8, 8707), (11, 8647), (13, 8611),

Gene: Wakanda_187 Start: 96721, Stop: 97071, Start Num: 1

Candidate Starts for Wakanda_187:

(Start: 1 @96721 has 56 MA's), (8, 96913), (13, 97030), (15, 97063),

Gene: Warpy_273 Start: 130821, Stop: 130498, Start Num: 1

Candidate Starts for Warpy_273:

(Start: 1 @130821 has 56 MA's), (5, 130719), (6, 130689), (11, 130575),

Gene: Warpy_21 Start: 9283, Stop: 8960, Start Num: 1

Candidate Starts for Warpy_21:

(Start: 1 @9283 has 56 MA's), (5, 9181), (6, 9151), (11, 9037),

Gene: Watermoore_18 Start: 8893, Stop: 8570, Start Num: 1

Candidate Starts for Watermoore_18:

(Start: 1 @8893 has 56 MA's), (2, 8842), (6, 8761), (8, 8707), (11, 8647), (13, 8611),

Gene: Watermoore_265 Start: 131489, Stop: 131166, Start Num: 1

Candidate Starts for Watermoore_265:

(Start: 1 @131489 has 56 MA's), (2, 131438), (6, 131357), (8, 131303), (11, 131243), (13, 131207),