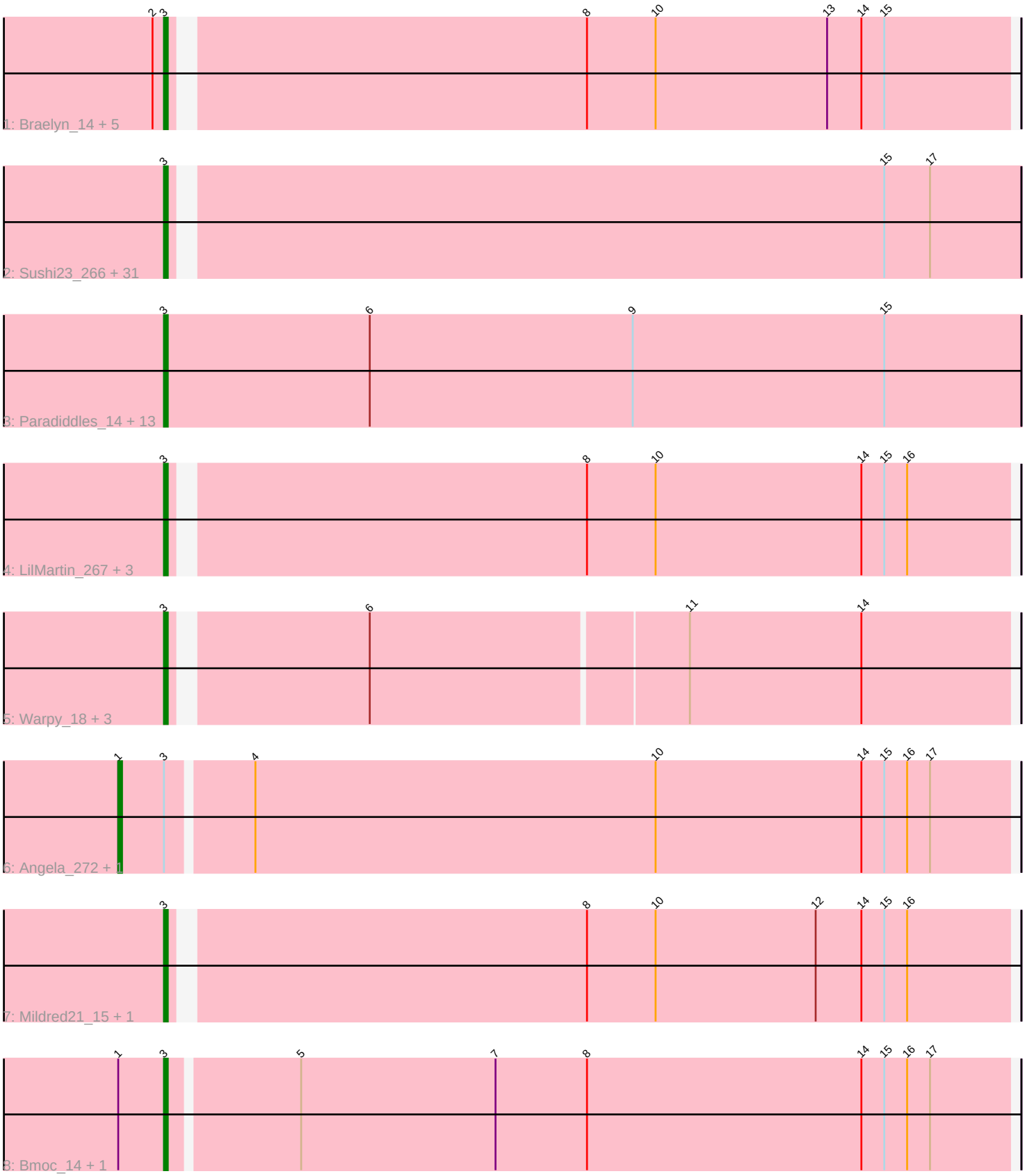
Pham 2103


2 3 8 10 13 14 15
1: Braelyn_14 + 5
3 15 17
2: Sushi23_266 + 31
3 6 9 15
3: Paradiddles_14 + 13
3 8 10 14 15 16
4: LilMartin_267 + 3
3 6 11 14
5: Warpy_18 + 3
1 3 4 10 14 15 16 17
6: Angela_272 + 1
3 8 10 12 14 15 16
7: Mildred21_15 + 1
1 3 5 7 8 14 15 16 17
8: Bmoc_14 + 1

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 2103 Report

This analysis was run 04/28/24 on database version 559.

Pham number 2103 has 66 members, 14 are drafts.

Phages represented in each track:
• Track 1 : Braelyn_14, WhereRU_271, Braelyn_259, Persimmon_264, WhereRU_15, Persimmon_13
• Track 2 : Sushi23_266, Cross_15, BlueOtter_268, Cursive_267, PacManQ_266, Larnav_17, Watermoore_15, Cursive_13, Leo04_266, Peebs_262, Lululemon_265, Teutsch_262, Tribute_261, EGole_15, Leo04_15, Samisti12_14, Larnav_276, BlueOtter_16, Pepperwood_16, Samisti12_265, Tribute_15, Teutsch_15, HangryHippo_268, Pepperwood_265, HangryHippo_16, EGole_269, PacManQ_15, Watermoore_262, Sushi23_16, Lululemon_15, Cross_263, Peebs_15
• Track 3 : Paradiddles_14, NootNoot_14, Liandry_263, Bartholomune_14, Liandry_14, Squillium_14, Bartholomune_264, PinkiePie_264, Squillium_266, Navo_264, Navo_14, PinkiePie_14, NootNoot_259, Paradiddles_255
• Track 4 : LilMartin_267, MulchMansion_271, LilMartin_15, MulchMansion_15
• Track 5 : Warpy_18, Jay2Jay_273, Jay2Jay_18, Warpy_270
• Track 6 : Angela_272, Angela_15
• Track 7 : Mildred21_15, Mildred21_278
• Track 8 : Bmoc_14, Bmoc_270

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

The start number called the most often in the published annotations is 3, it was called in 50 of the 52 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Bartholomune_14, Bartholomune_264, BlueOtter_16, BlueOtter_268, Bmoc_14, Bmoc_270, Braelyn_14, Braelyn_259, Cross_15, Cross_263, Cursive_13, Cursive_267, EGole_15, EGole_269, HangryHippo_16, HangryHippo_268, Jay2Jay_18, Jay2Jay_273, Larnav_17, Larnav_276, Leo04_15, Leo04_266, Liandry_14, Liandry_263, LilMartin_15, LilMartin_267, Lululemon_15, Lululemon_265, Mildred21_15, Mildred21_278, MulchMansion_15, MulchMansion_271, Navo_14, Navo_264, NootNoot_14, NootNoot_259, PacManQ_15, PacManQ_266, Paradiddles_14, Paradiddles_255, Peebs_15, Peebs_262, Pepperwood_16, Pepperwood_265, Persimmon_13, Persimmon_264, PinkiePie_14, PinkiePie_264, Samisti12_14, Samisti12_265, Squillium_14, Squillium_266, Sushi23_16, Sushi23_266, Teutsch_15, Teutsch_262, Tribute_15,

Tribute_261, Warpy_18, Warpy_270, Watermoore_15, Watermoore_262, WhereRU_15, WhereRU_271,

Genes that have the "Most Annotated" start but do not call it:
• Angela_15, Angela_272,

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

Summary by start number:

Start 1:
• Found in 4 of 66 (6.1%) of genes in pham
• Manual Annotations of this start: 2 of 52
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Angela_15 (BE1), Angela_272 (BE1),

Start 3:
• Found in 66 of 66 (100.0%) of genes in pham
• Manual Annotations of this start: 50 of 52
• Called 97.0% of time when present
• Phage (with cluster) where this start called: Bartholomune_14 (BE1), Bartholomune_264 (BE1), BlueOtter_16 (BE1), BlueOtter_268 (BE1), Bmoc_14 (BE1), Bmoc_270 (BE1), Braelyn_14 (BE1), Braelyn_259 (BE1), Cross_15 (BE1), Cross_263 (BE1), Cursive_13 (BE1), Cursive_267 (BE1), EGole_15 (BE1), EGole_269 (BE1), HangryHippo_16 (BE1), HangryHippo_268 (BE1), Jay2Jay_18 (BE1), Jay2Jay_273 (BE1), Larnav_17 (BE1), Larnav_276 (BE1), Leo04_15 (BE1), Leo04_266 (BE1), Liandry_14 (BE1), Liandry_263 (BE1), LilMartin_15 (BE1), LilMartin_267 (BE1), Lululemon_15 (BE1), Lululemon_265 (BE1), Mildred21_15 (BE1), Mildred21_278 (BE1), MulchMansion_15 (BE1), MulchMansion_271 (BE1), Navo_14 (BE1), Navo_264 (BE1), NootNoot_14 (BE1), NootNoot_259 (BE1), PacManQ_15 (BE1), PacManQ_266 (BE1), Paradiddles_14 (BE1), Paradiddles_255 (BE1), Peebs_15 (BE1), Peebs_262 (BE1), Pepperwood_16 (BE1), Pepperwood_265 (BE1), Persimmon_13 (BE1), Persimmon_264 (BE1), PinkiePie_14 (BE1), PinkiePie_264 (BE1), Samisti12_14 (BE1), Samisti12_265 (BE1), Squillium_14 (BE1), Squillium_266 (BE1), Sushi23_16 (BE1), Sushi23_266 (BE1), Teutsch_15 (BE1), Teutsch_262 (BE1), Tribute_15 (BE1), Tribute_261 (BE1), Warpy_18 (BE1), Warpy_270 (BE1), Watermoore_15 (BE1), Watermoore_262 (BE1), WhereRU_15 (BE1), WhereRU_271 (BE1),

Summary by clusters:

There is one cluster represented in this pham: BE1

Info for manual annotations of cluster BE1:
•Start number 1 was manually annotated 2 times for cluster BE1.
•Start number 3 was manually annotated 50 times for cluster BE1.

Gene Information:

Gene: Angela_272 Start: 130287, Stop: 130057, Start Num: 1

Candidate Starts for Angela_272:
(Start: 1 @130287 has 2 MA's), (Start: 3 @130275 has 50 MA's), (4, 130254), (10, 130149), (14, 130095), (15, 130089), (16, 130083), (17, 130077),

Gene: Angela_15 Start: 7884, Stop: 7654, Start Num: 1
Candidate Starts for Angela_15:
(Start: 1 @7884 has 2 MA's), (Start: 3 @7872 has 50 MA's), (4, 7851), (10, 7746), (14, 7692), (15, 7686), (16, 7680), (17, 7674),

Gene: Bartholomune_14 Start: 7256, Stop: 7032, Start Num: 3
Candidate Starts for Bartholomune_14:
(Start: 3 @7256 has 50 MA's), (6, 7202), (9, 7133), (15, 7067),

Gene: Bartholomune_264 Start: 128355, Stop: 128131, Start Num: 3
Candidate Starts for Bartholomune_264:
(Start: 3 @128355 has 50 MA's), (6, 128301), (9, 128232), (15, 128166),

Gene: BlueOtter_268 Start: 128666, Stop: 128448, Start Num: 3
Candidate Starts for BlueOtter_268:
(Start: 3 @128666 has 50 MA's), (15, 128483), (17, 128471),

Gene: BlueOtter_16 Start: 7579, Stop: 7361, Start Num: 3
Candidate Starts for BlueOtter_16:
(Start: 3 @7579 has 50 MA's), (15, 7396), (17, 7384),

Gene: Bmoc_14 Start: 7741, Stop: 7523, Start Num: 3
Candidate Starts for Bmoc_14:
(Start: 1 @7753 has 2 MA's), (Start: 3 @7741 has 50 MA's), (5, 7708), (7, 7657), (8, 7633), (14, 7561), (15, 7555), (16, 7549), (17, 7543),

Gene: Bmoc_270 Start: 129563, Stop: 129345, Start Num: 3
Candidate Starts for Bmoc_270:
(Start: 1 @129575 has 2 MA's), (Start: 3 @129563 has 50 MA's), (5, 129530), (7, 129479), (8, 129455), (14, 129383), (15, 129377), (16, 129371), (17, 129365),

Gene: Braelyn_14 Start: 7299, Stop: 7084, Start Num: 3
Candidate Starts for Braelyn_14:
(2, 7302), (Start: 3 @7299 has 50 MA's), (8, 7194), (10, 7176), (13, 7131), (14, 7122), (15, 7116),

Gene: Braelyn_259 Start: 127709, Stop: 127494, Start Num: 3
Candidate Starts for Braelyn_259:
(2, 127712), (Start: 3 @127709 has 50 MA's), (8, 127604), (10, 127586), (13, 127541), (14, 127532), (15, 127526),

Gene: Cross_15 Start: 7580, Stop: 7362, Start Num: 3
Candidate Starts for Cross_15:
(Start: 3 @7580 has 50 MA's), (15, 7397), (17, 7385),

Gene: Cross_263 Start: 129312, Stop: 129094, Start Num: 3
Candidate Starts for Cross_263:
(Start: 3 @129312 has 50 MA's), (15, 129129), (17, 129117),

Gene: Cursive_267 Start: 128406, Stop: 128188, Start Num: 3

Candidate Starts for Cursive_267:
(Start: 3 @128406 has 50 MA's), (15, 128223), (17, 128211),

Gene: Cursive_13 Start: 6397, Stop: 6179, Start Num: 3
Candidate Starts for Cursive_13:
(Start: 3 @6397 has 50 MA's), (15, 6214), (17, 6202),

Gene: EGole_15 Start: 8000, Stop: 7782, Start Num: 3
Candidate Starts for EGole_15:
(Start: 3 @8000 has 50 MA's), (15, 7817), (17, 7805),

Gene: EGole_269 Start: 132312, Stop: 132094, Start Num: 3
Candidate Starts for EGole_269:
(Start: 3 @132312 has 50 MA's), (15, 132129), (17, 132117),

Gene: HangryHippo_268 Start: 128666, Stop: 128448, Start Num: 3
Candidate Starts for HangryHippo_268:
(Start: 3 @128666 has 50 MA's), (15, 128483), (17, 128471),

Gene: HangryHippo_16 Start: 7579, Stop: 7361, Start Num: 3
Candidate Starts for HangryHippo_16:
(Start: 3 @7579 has 50 MA's), (15, 7396), (17, 7384),

Gene: Jay2Jay_273 Start: 130033, Stop: 129821, Start Num: 3
Candidate Starts for Jay2Jay_273:
(Start: 3 @130033 has 50 MA's), (6, 129985), (11, 129904), (14, 129859),

Gene: Jay2Jay_18 Start: 7940, Stop: 7728, Start Num: 3
Candidate Starts for Jay2Jay_18:
(Start: 3 @7940 has 50 MA's), (6, 7892), (11, 7811), (14, 7766),

Gene: Larnav_17 Start: 7579, Stop: 7361, Start Num: 3
Candidate Starts for Larnav_17:
(Start: 3 @7579 has 50 MA's), (15, 7396), (17, 7384),

Gene: Larnav_276 Start: 129584, Stop: 129366, Start Num: 3
Candidate Starts for Larnav_276:
(Start: 3 @129584 has 50 MA's), (15, 129401), (17, 129389),

Gene: Leo04_266 Start: 129696, Stop: 129478, Start Num: 3
Candidate Starts for Leo04_266:
(Start: 3 @129696 has 50 MA's), (15, 129513), (17, 129501),

Gene: Leo04_15 Start: 7578, Stop: 7360, Start Num: 3
Candidate Starts for Leo04_15:
(Start: 3 @7578 has 50 MA's), (15, 7395), (17, 7383),

Gene: Liandry_263 Start: 128776, Stop: 128552, Start Num: 3
Candidate Starts for Liandry_263:
(Start: 3 @128776 has 50 MA's), (6, 128722), (9, 128653), (15, 128587),

Gene: Liandry_14 Start: 7255, Stop: 7031, Start Num: 3
Candidate Starts for Liandry_14:

(Start: 3 @7255 has 50 MA's), (6, 7201), (9, 7132), (15, 7066),

Gene: LilMartin_267 Start: 129231, Stop: 129016, Start Num: 3
Candidate Starts for LilMartin_267:
(Start: 3 @129231 has 50 MA's), (8, 129126), (10, 129108), (14, 129054), (15, 129048), (16, 129042),

Gene: LilMartin_15 Start: 7887, Stop: 7672, Start Num: 3
Candidate Starts for LilMartin_15:
(Start: 3 @7887 has 50 MA's), (8, 7782), (10, 7764), (14, 7710), (15, 7704), (16, 7698),

Gene: Lululemon_265 Start: 127851, Stop: 127633, Start Num: 3
Candidate Starts for Lululemon_265:
(Start: 3 @127851 has 50 MA's), (15, 127668), (17, 127656),

Gene: Lululemon_15 Start: 6959, Stop: 6741, Start Num: 3
Candidate Starts for Lululemon_15:
(Start: 3 @6959 has 50 MA's), (15, 6776), (17, 6764),

Gene: Mildred21_15 Start: 7473, Stop: 7258, Start Num: 3
Candidate Starts for Mildred21_15:
(Start: 3 @7473 has 50 MA's), (8, 7368), (10, 7350), (12, 7308), (14, 7296), (15, 7290), (16, 7284),

Gene: Mildred21_278 Start: 128631, Stop: 128416, Start Num: 3
Candidate Starts for Mildred21_278:
(Start: 3 @128631 has 50 MA's), (8, 128526), (10, 128508), (12, 128466), (14, 128454), (15, 128448), (16, 128442),

Gene: MulchMansion_271 Start: 130865, Stop: 130650, Start Num: 3
Candidate Starts for MulchMansion_271:
(Start: 3 @130865 has 50 MA's), (8, 130760), (10, 130742), (14, 130688), (15, 130682), (16, 130676),

Gene: MulchMansion_15 Start: 7887, Stop: 7672, Start Num: 3
Candidate Starts for MulchMansion_15:
(Start: 3 @7887 has 50 MA's), (8, 7782), (10, 7764), (14, 7710), (15, 7704), (16, 7698),

Gene: Navo_264 Start: 126679, Stop: 126455, Start Num: 3
Candidate Starts for Navo_264:
(Start: 3 @126679 has 50 MA's), (6, 126625), (9, 126556), (15, 126490),

Gene: Navo_14 Start: 7054, Stop: 6830, Start Num: 3
Candidate Starts for Navo_14:
(Start: 3 @7054 has 50 MA's), (6, 7000), (9, 6931), (15, 6865),

Gene: NootNoot_14 Start: 7266, Stop: 7042, Start Num: 3
Candidate Starts for NootNoot_14:
(Start: 3 @7266 has 50 MA's), (6, 7212), (9, 7143), (15, 7077),

Gene: NootNoot_259 Start: 127565, Stop: 127341, Start Num: 3
Candidate Starts for NootNoot_259:
(Start: 3 @127565 has 50 MA's), (6, 127511), (9, 127442), (15, 127376),

Gene: PacManQ_266 Start: 127851, Stop: 127633, Start Num: 3
Candidate Starts for PacManQ_266:

(Start: 3 @127851 has 50 MA's), (15, 127668), (17, 127656),

Gene: PacManQ_15 Start: 6959, Stop: 6741, Start Num: 3
Candidate Starts for PacManQ_15:
(Start: 3 @6959 has 50 MA's), (15, 6776), (17, 6764),

Gene: Paradiddles_14 Start: 7256, Stop: 7032, Start Num: 3
Candidate Starts for Paradiddles_14:
(Start: 3 @7256 has 50 MA's), (6, 7202), (9, 7133), (15, 7067),

Gene: Paradiddles_255 Start: 129964, Stop: 129740, Start Num: 3
Candidate Starts for Paradiddles_255:
(Start: 3 @129964 has 50 MA's), (6, 129910), (9, 129841), (15, 129775),

Gene: Peebs_262 Start: 129553, Stop: 129335, Start Num: 3
Candidate Starts for Peebs_262:
(Start: 3 @129553 has 50 MA's), (15, 129370), (17, 129358),

Gene: Peebs_15 Start: 7578, Stop: 7360, Start Num: 3
Candidate Starts for Peebs_15:
(Start: 3 @7578 has 50 MA's), (15, 7395), (17, 7383),

Gene: Pepperwood_16 Start: 7733, Stop: 7515, Start Num: 3
Candidate Starts for Pepperwood_16:
(Start: 3 @7733 has 50 MA's), (15, 7550), (17, 7538),

Gene: Pepperwood_265 Start: 129518, Stop: 129300, Start Num: 3
Candidate Starts for Pepperwood_265:
(Start: 3 @129518 has 50 MA's), (15, 129335), (17, 129323),

Gene: Persimmon_264 Start: 127896, Stop: 127681, Start Num: 3
Candidate Starts for Persimmon_264:
(2, 127899), (Start: 3 @127896 has 50 MA's), (8, 127791), (10, 127773), (13, 127728), (14, 127719), (15, 127713),

Gene: Persimmon_13 Start: 7085, Stop: 6870, Start Num: 3
Candidate Starts for Persimmon_13:
(2, 7088), (Start: 3 @7085 has 50 MA's), (8, 6980), (10, 6962), (13, 6917), (14, 6908), (15, 6902),

Gene: PinkiePie_264 Start: 128777, Stop: 128553, Start Num: 3
Candidate Starts for PinkiePie_264:
(Start: 3 @128777 has 50 MA's), (6, 128723), (9, 128654), (15, 128588),

Gene: PinkiePie_14 Start: 7256, Stop: 7032, Start Num: 3
Candidate Starts for PinkiePie_14:
(Start: 3 @7256 has 50 MA's), (6, 7202), (9, 7133), (15, 7067),

Gene: Samisti12_14 Start: 7579, Stop: 7361, Start Num: 3
Candidate Starts for Samisti12_14:
(Start: 3 @7579 has 50 MA's), (15, 7396), (17, 7384),

Gene: Samisti12_265 Start: 130623, Stop: 130405, Start Num: 3
Candidate Starts for Samisti12_265:

(Start: 3 @130623 has 50 MA's), (15, 130440), (17, 130428),

Gene: Squillium_14 Start: 7256, Stop: 7032, Start Num: 3
Candidate Starts for Squillium_14:
(Start: 3 @7256 has 50 MA's), (6, 7202), (9, 7133), (15, 7067),

Gene: Squillium_266 Start: 128780, Stop: 128556, Start Num: 3
Candidate Starts for Squillium_266:
(Start: 3 @128780 has 50 MA's), (6, 128726), (9, 128657), (15, 128591),

Gene: Sushi23_266 Start: 130422, Stop: 130204, Start Num: 3
Candidate Starts for Sushi23_266:
(Start: 3 @130422 has 50 MA's), (15, 130239), (17, 130227),

Gene: Sushi23_16 Start: 7579, Stop: 7361, Start Num: 3
Candidate Starts for Sushi23_16:
(Start: 3 @7579 has 50 MA's), (15, 7396), (17, 7384),

Gene: Teutsch_262 Start: 129789, Stop: 129571, Start Num: 3
Candidate Starts for Teutsch_262:
(Start: 3 @129789 has 50 MA's), (15, 129606), (17, 129594),

Gene: Teutsch_15 Start: 7580, Stop: 7362, Start Num: 3
Candidate Starts for Teutsch_15:
(Start: 3 @7580 has 50 MA's), (15, 7397), (17, 7385),

Gene: Tribute_261 Start: 130123, Stop: 129905, Start Num: 3
Candidate Starts for Tribute_261:
(Start: 3 @130123 has 50 MA's), (15, 129940), (17, 129928),

Gene: Tribute_15 Start: 7579, Stop: 7361, Start Num: 3
Candidate Starts for Tribute_15:
(Start: 3 @7579 has 50 MA's), (15, 7396), (17, 7384),

Gene: Warpy_18 Start: 7961, Stop: 7749, Start Num: 3
Candidate Starts for Warpy_18:
(Start: 3 @7961 has 50 MA's), (6, 7913), (11, 7832), (14, 7787),

Gene: Warpy_270 Start: 129499, Stop: 129287, Start Num: 3
Candidate Starts for Warpy_270:
(Start: 3 @129499 has 50 MA's), (6, 129451), (11, 129370), (14, 129325),

Gene: Watermoore_15 Start: 7580, Stop: 7362, Start Num: 3
Candidate Starts for Watermoore_15:
(Start: 3 @7580 has 50 MA's), (15, 7397), (17, 7385),

Gene: Watermoore_262 Start: 130176, Stop: 129958, Start Num: 3
Candidate Starts for Watermoore_262:
(Start: 3 @130176 has 50 MA's), (15, 129993), (17, 129981),

Gene: WhereRU_271 Start: 128230, Stop: 128015, Start Num: 3
Candidate Starts for WhereRU_271:

(2, 128233), (Start: 3 @128230 has 50 MA's), (8, 128125), (10, 128107), (13, 128062), (14, 128053), (15, 128047),

Gene: WhereRU_15 Start: 7085, Stop: 6870, Start Num: 3
Candidate Starts for WhereRU_15:
(2, 7088), (Start: 3 @7085 has 50 MA's), (8, 6980), (10, 6962), (13, 6917), (14, 6908), (15, 6902),