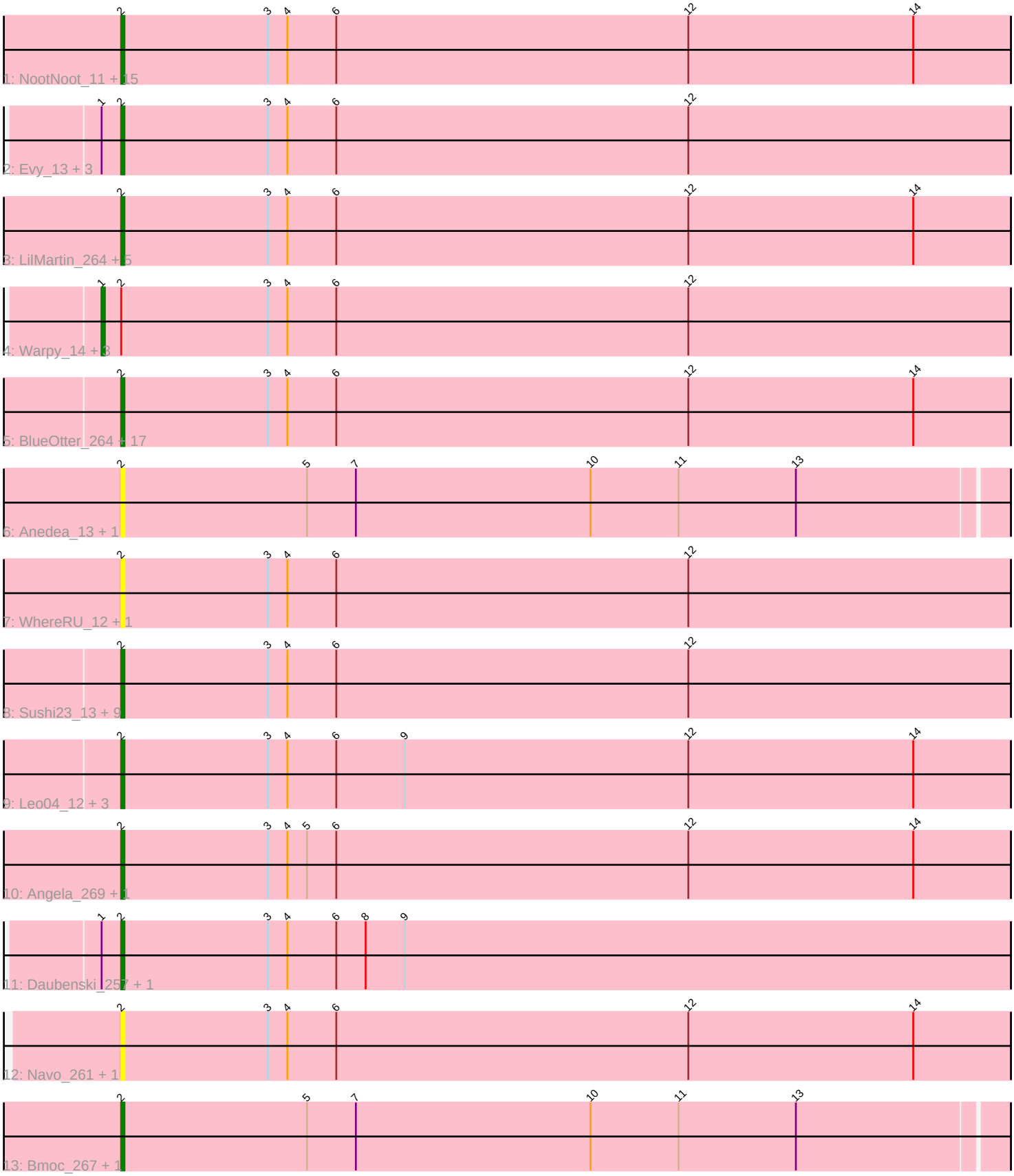
# Pham 1851


1: NootNoot_11 + 15
2: Evy_13 + 3
3: LilMartin_264 + 5
4: Warpy_14 + 8
5: BlueOtter_264 + 17
6: Anedea_13 + 1
7: WhereRU_12 + 1
8: Sushi23_13 + 9
9: Leo04_12 + 3
10: Angela_269 + 1
11: Daubenski_257 + 1
12: Navo_261 + 1
13: Bmoc_267 + 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 1851 Report

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

Pham number 1851 has 74 members, 16 are drafts.

Phages represented in each track:
• Track 1 : NootNoot_11, Braelyn_11, Liandry_260, Squillium_11, Liandry_11, Persimmon_261, Paradiddles_252, Paradiddles_11, Bartholomune_11, PinkiePie_11, Persimmon_10, Squillium_263, NootNoot_256, Braelyn_256, PinkiePie_261, Bartholomune_261
• Track 2 : Evy_13, Evy_251, Targaryen_262, Targaryen_11
• Track 3 : LilMartin_264, MulchMansion_268, LilMartin_12, Mildred21_12, Mildred21_275, MulchMansion_12
• Track 4 : Warpy_14, Jay2Jay_269, Warpy_266, Jay2Jay_14
• Track 5 : BlueOtter_264, HangryHippo_12, Watermoore_12, Cursive_10, EGole_266, Teutsch_259, EGole_12, Samisti12_262, Cross_12, HangryHippo_264, Teutsch_12, Tribute_12, Cursive_264, Tribute_258, Samisti12_11, Cross_260, BlueOtter_12, Watermoore_259
• Track 6 : Anedea_13, Anedea_275
• Track 7 : WhereRU_12, WhereRU_268
• Track 8 : Sushi23_13, Lululemon_261, Peebs_259, Sushi23_263, Pepperwood_13, PacManQ_262, Pepperwood_262, Peebs_12, PacManQ_11, Lululemon_11
• Track 9 : Leo04_12, Larnav_14, Leo04_263, Larnav_273
• Track 10 : Angela_269, Angela_12
• Track 11 : Daubenski_257, Daubenski_13
• Track 12 : Navo_261, Navo_11
• Track 13 : Bmoc_267, Bmoc_11

***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 54 of the 58 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Anedea_13, Anedea_275, Angela_12, Angela_269, Bartholomune_11, Bartholomune_261, BlueOtter_12, BlueOtter_264, Bmoc_11, Bmoc_267, Braelyn_11, Braelyn_256, Cross_12, Cross_260, Cursive_10, Cursive_264, Daubenski_13, Daubenski_257, EGole_12, EGole_266, Evy_13, Evy_251, HangryHippo_12, HangryHippo_264, Larnav_14, Larnav_273, Leo04_12, Leo04_263, Liandry_11, Liandry_260, LilMartin_12, LilMartin_264, Lululemon_11, Lululemon_261,

Mildred21_12, Mildred21_275, MulchMansion_12, MulchMansion_268, Navo_11, Navo_261, NootNoot_11, NootNoot_256, PacManQ_11, PacManQ_262, Paradiddles_11, Paradiddles_252, Peebs_12, Peebs_259, Pepperwood_13, Pepperwood_262, Persimmon_10, Persimmon_261, PinkiePie_11, PinkiePie_261, Samisti12_11, Samisti12_262, Squillium_11, Squillium_263, Sushi23_13, Sushi23_263, Targaryen_11, Targaryen_262, Teutsch_12, Teutsch_259, Tribute_12, Tribute_258, Watermoore_12, Watermoore_259, WhereRU_12, WhereRU_268,

Genes that have the "Most Annotated" start but do not call it:
• Jay2Jay_14, Jay2Jay_269, Warpy_14, Warpy_266,

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

**Summary by start number:**

Start 1:
• Found in 10 of 74 ( 13.5% ) of genes in pham
• Manual Annotations of this start: 4 of 58
• Called 40.0% of time when present
• Phage (with cluster) where this start called: Jay2Jay_14 (BE1), Jay2Jay_269 (BE1), Warpy_14 (BE1), Warpy_266 (BE1),

Start 2:
• Found in 74 of 74 ( 100.0% ) of genes in pham
• Manual Annotations of this start: 54 of 58
• Called 94.6% of time when present
• Phage (with cluster) where this start called: Anedea_13 (BE1), Anedea_275 (BE1), Angela_12 (BE1), Angela_269 (BE1), Bartholomune_11 (BE1), Bartholomune_261 (BE1), BlueOtter_12 (BE1), BlueOtter_264 (BE1), Bmoc_11 (BE1), Bmoc_267 (BE1), Braelyn_11 (BE1), Braelyn_256 (BE1), Cross_12 (BE1), Cross_260 (BE1), Cursive_10 (BE1), Cursive_264 (BE1), Daubenski_13 (BE1), Daubenski_257 (BE1), EGole_12 (BE1), EGole_266 (BE1), Evy_13 (BE1), Evy_251 (BE1), HangryHippo_12 (BE1), HangryHippo_264 (BE1), Larnav_14 (BE1), Larnav_273 (BE1), Leo04_12 (BE1), Leo04_263 (BE1), Liandry_11 (BE1), Liandry_260 (BE1), LilMartin_12 (BE1), LilMartin_264 (BE1), Lululemon_11 (BE1), Lululemon_261 (BE1), Mildred21_12 (BE1), Mildred21_275 (BE1), MulchMansion_12 (BE1), MulchMansion_268 (BE1), Navo_11 (BE1), Navo_261 (BE1), NootNoot_11 (BE1), NootNoot_256 (BE1), PacManQ_11 (BE1), PacManQ_262 (BE1), Paradiddles_11 (BE1), Paradiddles_252 (BE1), Peebs_12 (BE1), Peebs_259 (BE1), Pepperwood_13 (BE1), Pepperwood_262 (BE1), Persimmon_10 (BE1), Persimmon_261 (BE1), PinkiePie_11 (BE1), PinkiePie_261 (BE1), Samisti12_11 (BE1), Samisti12_262 (BE1), Squillium_11 (BE1), Squillium_263 (BE1), Sushi23_13 (BE1), Sushi23_263 (BE1), Targaryen_11 (BE1), Targaryen_262 (BE1), Teutsch_12 (BE1), Teutsch_259 (BE1), Tribute_12 (BE1), Tribute_258 (BE1), Watermoore_12 (BE1), Watermoore_259 (BE1), WhereRU_12 (BE1), WhereRU_268 (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 4 times for cluster BE1.

•Start number 2 was manually annotated 54 times for cluster BE1.

### *Gene Information:*

Gene: Anedea_13 Start: 6871, Stop: 6602, Start Num: 2
Candidate Starts for Anedea_13:
(Start: 2 @6871 has 54 MA's), (5, 6814), (7, 6799), (10, 6727), (11, 6700), (13, 6664),

Gene: Anedea_275 Start: 129920, Stop: 129651, Start Num: 2
Candidate Starts for Anedea_275:
(Start: 2 @129920 has 54 MA's), (5, 129863), (7, 129848), (10, 129776), (11, 129749), (13, 129713),

Gene: Angela_269 Start: 129503, Stop: 129231, Start Num: 2
Candidate Starts for Angela_269:
(Start: 2 @129503 has 54 MA's), (3, 129458), (4, 129452), (5, 129446), (6, 129437), (12, 129329), (14, 129260),

Gene: Angela_12 Start: 7100, Stop: 6828, Start Num: 2
Candidate Starts for Angela_12:
(Start: 2 @7100 has 54 MA's), (3, 7055), (4, 7049), (5, 7043), (6, 7034), (12, 6926), (14, 6857),

Gene: Bartholomune_11 Start: 6427, Stop: 6155, Start Num: 2
Candidate Starts for Bartholomune_11:
(Start: 2 @6427 has 54 MA's), (3, 6382), (4, 6376), (6, 6361), (12, 6253), (14, 6184),

Gene: Bartholomune_261 Start: 127526, Stop: 127254, Start Num: 2
Candidate Starts for Bartholomune_261:
(Start: 2 @127526 has 54 MA's), (3, 127481), (4, 127475), (6, 127460), (12, 127352), (14, 127283),

Gene: BlueOtter_264 Start: 127847, Stop: 127575, Start Num: 2
Candidate Starts for BlueOtter_264:
(Start: 2 @127847 has 54 MA's), (3, 127802), (4, 127796), (6, 127781), (12, 127673), (14, 127604),

Gene: BlueOtter_12 Start: 6760, Stop: 6488, Start Num: 2
Candidate Starts for BlueOtter_12:
(Start: 2 @6760 has 54 MA's), (3, 6715), (4, 6709), (6, 6694), (12, 6586), (14, 6517),

Gene: Bmoc_267 Start: 128800, Stop: 128531, Start Num: 2
Candidate Starts for Bmoc_267:
(Start: 2 @128800 has 54 MA's), (5, 128743), (7, 128728), (10, 128656), (11, 128629), (13, 128593),

Gene: Bmoc_11 Start: 6978, Stop: 6709, Start Num: 2
Candidate Starts for Bmoc_11:
(Start: 2 @6978 has 54 MA's), (5, 6921), (7, 6906), (10, 6834), (11, 6807), (13, 6771),

Gene: Braelyn_11 Start: 6439, Stop: 6167, Start Num: 2
Candidate Starts for Braelyn_11:
(Start: 2 @6439 has 54 MA's), (3, 6394), (4, 6388), (6, 6373), (12, 6265), (14, 6196),

Gene: Braelyn_256 Start: 126849, Stop: 126577, Start Num: 2
Candidate Starts for Braelyn_256:

(Start: 2 @126849 has 54 MA's), (3, 126804), (4, 126798), (6, 126783), (12, 126675), (14, 126606),

Gene: Cross_12 Start: 6760, Stop: 6488, Start Num: 2
Candidate Starts for Cross_12:
(Start: 2 @6760 has 54 MA's), (3, 6715), (4, 6709), (6, 6694), (12, 6586), (14, 6517),

Gene: Cross_260 Start: 128492, Stop: 128220, Start Num: 2
Candidate Starts for Cross_260:
(Start: 2 @128492 has 54 MA's), (3, 128447), (4, 128441), (6, 128426), (12, 128318), (14, 128249),

Gene: Cursive_10 Start: 5578, Stop: 5306, Start Num: 2
Candidate Starts for Cursive_10:
(Start: 2 @5578 has 54 MA's), (3, 5533), (4, 5527), (6, 5512), (12, 5404), (14, 5335),

Gene: Cursive_264 Start: 127587, Stop: 127315, Start Num: 2
Candidate Starts for Cursive_264:
(Start: 2 @127587 has 54 MA's), (3, 127542), (4, 127536), (6, 127521), (12, 127413), (14, 127344),

Gene: Daubenski_257 Start: 129348, Stop: 129076, Start Num: 2
Candidate Starts for Daubenski_257:
(Start: 1 @129354 has 4 MA's), (Start: 2 @129348 has 54 MA's), (3, 129303), (4, 129297), (6, 129282), (8, 129273), (9, 129261),

Gene: Daubenski_13 Start: 6972, Stop: 6700, Start Num: 2
Candidate Starts for Daubenski_13:
(Start: 1 @6978 has 4 MA's), (Start: 2 @6972 has 54 MA's), (3, 6927), (4, 6921), (6, 6906), (8, 6897), (9, 6885),

Gene: EGole_266 Start: 131493, Stop: 131221, Start Num: 2
Candidate Starts for EGole_266:
(Start: 2 @131493 has 54 MA's), (3, 131448), (4, 131442), (6, 131427), (12, 131319), (14, 131250),

Gene: EGole_12 Start: 7181, Stop: 6909, Start Num: 2
Candidate Starts for EGole_12:
(Start: 2 @7181 has 54 MA's), (3, 7136), (4, 7130), (6, 7115), (12, 7007), (14, 6938),

Gene: Evy_13 Start: 7054, Stop: 6782, Start Num: 2
Candidate Starts for Evy_13:
(Start: 1 @7060 has 4 MA's), (Start: 2 @7054 has 54 MA's), (3, 7009), (4, 7003), (6, 6988), (12, 6880),

Gene: Evy_251 Start: 128783, Stop: 128511, Start Num: 2
Candidate Starts for Evy_251:
(Start: 1 @128789 has 4 MA's), (Start: 2 @128783 has 54 MA's), (3, 128738), (4, 128732), (6, 128717), (12, 128609),

Gene: HangryHippo_12 Start: 6760, Stop: 6488, Start Num: 2
Candidate Starts for HangryHippo_12:
(Start: 2 @6760 has 54 MA's), (3, 6715), (4, 6709), (6, 6694), (12, 6586), (14, 6517),

Gene: HangryHippo_264 Start: 127847, Stop: 127575, Start Num: 2
Candidate Starts for HangryHippo_264:
(Start: 2 @127847 has 54 MA's), (3, 127802), (4, 127796), (6, 127781), (12, 127673), (14, 127604),

Gene: Jay2Jay_269 Start: 128857, Stop: 128579, Start Num: 1
Candidate Starts for Jay2Jay_269:
(Start: 1 @128857 has 4 MA's), (Start: 2 @128851 has 54 MA's), (3, 128806), (4, 128800), (6, 128785), (12, 128677),

Gene: Jay2Jay_14 Start: 6764, Stop: 6486, Start Num: 1
Candidate Starts for Jay2Jay_14:
(Start: 1 @6764 has 4 MA's), (Start: 2 @6758 has 54 MA's), (3, 6713), (4, 6707), (6, 6692), (12, 6584),

Gene: Larnav_14 Start: 6760, Stop: 6488, Start Num: 2
Candidate Starts for Larnav_14:
(Start: 2 @6760 has 54 MA's), (3, 6715), (4, 6709), (6, 6694), (9, 6673), (12, 6586), (14, 6517),

Gene: Larnav_273 Start: 128765, Stop: 128493, Start Num: 2
Candidate Starts for Larnav_273:
(Start: 2 @128765 has 54 MA's), (3, 128720), (4, 128714), (6, 128699), (9, 128678), (12, 128591), (14, 128522),

Gene: Leo04_12 Start: 6759, Stop: 6487, Start Num: 2
Candidate Starts for Leo04_12:
(Start: 2 @6759 has 54 MA's), (3, 6714), (4, 6708), (6, 6693), (9, 6672), (12, 6585), (14, 6516),

Gene: Leo04_263 Start: 128877, Stop: 128605, Start Num: 2
Candidate Starts for Leo04_263:
(Start: 2 @128877 has 54 MA's), (3, 128832), (4, 128826), (6, 128811), (9, 128790), (12, 128703), (14, 128634),

Gene: Liandry_260 Start: 127947, Stop: 127675, Start Num: 2
Candidate Starts for Liandry_260:
(Start: 2 @127947 has 54 MA's), (3, 127902), (4, 127896), (6, 127881), (12, 127773), (14, 127704),

Gene: Liandry_11 Start: 6426, Stop: 6154, Start Num: 2
Candidate Starts for Liandry_11:
(Start: 2 @6426 has 54 MA's), (3, 6381), (4, 6375), (6, 6360), (12, 6252), (14, 6183),

Gene: LilMartin_264 Start: 128420, Stop: 128148, Start Num: 2
Candidate Starts for LilMartin_264:
(Start: 2 @128420 has 54 MA's), (3, 128375), (4, 128369), (6, 128354), (12, 128246), (14, 128177),

Gene: LilMartin_12 Start: 7076, Stop: 6804, Start Num: 2
Candidate Starts for LilMartin_12:
(Start: 2 @7076 has 54 MA's), (3, 7031), (4, 7025), (6, 7010), (12, 6902), (14, 6833),

Gene: Lululemon_261 Start: 127032, Stop: 126760, Start Num: 2
Candidate Starts for Lululemon_261:
(Start: 2 @127032 has 54 MA's), (3, 126987), (4, 126981), (6, 126966), (12, 126858),

Gene: Lululemon_11 Start: 6140, Stop: 5868, Start Num: 2
Candidate Starts for Lululemon_11:
(Start: 2 @6140 has 54 MA's), (3, 6095), (4, 6089), (6, 6074), (12, 5966),

Gene: Mildred21_12 Start: 6662, Stop: 6390, Start Num: 2
Candidate Starts for Mildred21_12:

(Start: 2 @6662 has 54 MA's), (3, 6617), (4, 6611), (6, 6596), (12, 6488), (14, 6419),

Gene: Mildred21_275 Start: 127820, Stop: 127548, Start Num: 2
Candidate Starts for Mildred21_275:
(Start: 2 @127820 has 54 MA's), (3, 127775), (4, 127769), (6, 127754), (12, 127646), (14, 127577),

Gene: MulchMansion_268 Start: 130054, Stop: 129782, Start Num: 2
Candidate Starts for MulchMansion_268:
(Start: 2 @130054 has 54 MA's), (3, 130009), (4, 130003), (6, 129988), (12, 129880), (14, 129811),

Gene: MulchMansion_12 Start: 7076, Stop: 6804, Start Num: 2
Candidate Starts for MulchMansion_12:
(Start: 2 @7076 has 54 MA's), (3, 7031), (4, 7025), (6, 7010), (12, 6902), (14, 6833),

Gene: Navo_261 Start: 125850, Stop: 125578, Start Num: 2
Candidate Starts for Navo_261:
(Start: 2 @125850 has 54 MA's), (3, 125805), (4, 125799), (6, 125784), (12, 125676), (14, 125607),

Gene: Navo_11 Start: 6225, Stop: 5953, Start Num: 2
Candidate Starts for Navo_11:
(Start: 2 @6225 has 54 MA's), (3, 6180), (4, 6174), (6, 6159), (12, 6051), (14, 5982),

Gene: NootNoot_11 Start: 6437, Stop: 6165, Start Num: 2
Candidate Starts for NootNoot_11:
(Start: 2 @6437 has 54 MA's), (3, 6392), (4, 6386), (6, 6371), (12, 6263), (14, 6194),

Gene: NootNoot_256 Start: 126736, Stop: 126464, Start Num: 2
Candidate Starts for NootNoot_256:
(Start: 2 @126736 has 54 MA's), (3, 126691), (4, 126685), (6, 126670), (12, 126562), (14, 126493),

Gene: PacManQ_262 Start: 127032, Stop: 126760, Start Num: 2
Candidate Starts for PacManQ_262:
(Start: 2 @127032 has 54 MA's), (3, 126987), (4, 126981), (6, 126966), (12, 126858),

Gene: PacManQ_11 Start: 6140, Stop: 5868, Start Num: 2
Candidate Starts for PacManQ_11:
(Start: 2 @6140 has 54 MA's), (3, 6095), (4, 6089), (6, 6074), (12, 5966),

Gene: Paradiddles_252 Start: 129135, Stop: 128863, Start Num: 2
Candidate Starts for Paradiddles_252:
(Start: 2 @129135 has 54 MA's), (3, 129090), (4, 129084), (6, 129069), (12, 128961), (14, 128892),

Gene: Paradiddles_11 Start: 6427, Stop: 6155, Start Num: 2
Candidate Starts for Paradiddles_11:
(Start: 2 @6427 has 54 MA's), (3, 6382), (4, 6376), (6, 6361), (12, 6253), (14, 6184),

Gene: Peebs_259 Start: 128734, Stop: 128462, Start Num: 2
Candidate Starts for Peebs_259:
(Start: 2 @128734 has 54 MA's), (3, 128689), (4, 128683), (6, 128668), (12, 128560),

Gene: Peebs_12 Start: 6759, Stop: 6487, Start Num: 2
Candidate Starts for Peebs_12:
(Start: 2 @6759 has 54 MA's), (3, 6714), (4, 6708), (6, 6693), (12, 6585),

Gene: Pepperwood_13 Start: 6914, Stop: 6642, Start Num: 2
Candidate Starts for Pepperwood_13:
(Start: 2 @6914 has 54 MA's), (3, 6869), (4, 6863), (6, 6848), (12, 6740),

Gene: Pepperwood_262 Start: 128699, Stop: 128427, Start Num: 2
Candidate Starts for Pepperwood_262:
(Start: 2 @128699 has 54 MA's), (3, 128654), (4, 128648), (6, 128633), (12, 128525),

Gene: Persimmon_261 Start: 127036, Stop: 126764, Start Num: 2
Candidate Starts for Persimmon_261:
(Start: 2 @127036 has 54 MA's), (3, 126991), (4, 126985), (6, 126970), (12, 126862), (14, 126793),

Gene: Persimmon_10 Start: 6225, Stop: 5953, Start Num: 2
Candidate Starts for Persimmon_10:
(Start: 2 @6225 has 54 MA's), (3, 6180), (4, 6174), (6, 6159), (12, 6051), (14, 5982),

Gene: PinkiePie_11 Start: 6427, Stop: 6155, Start Num: 2
Candidate Starts for PinkiePie_11:
(Start: 2 @6427 has 54 MA's), (3, 6382), (4, 6376), (6, 6361), (12, 6253), (14, 6184),

Gene: PinkiePie_261 Start: 127948, Stop: 127676, Start Num: 2
Candidate Starts for PinkiePie_261:
(Start: 2 @127948 has 54 MA's), (3, 127903), (4, 127897), (6, 127882), (12, 127774), (14, 127705),

Gene: Samisti12_262 Start: 129804, Stop: 129532, Start Num: 2
Candidate Starts for Samisti12_262:
(Start: 2 @129804 has 54 MA's), (3, 129759), (4, 129753), (6, 129738), (12, 129630), (14, 129561),

Gene: Samisti12_11 Start: 6760, Stop: 6488, Start Num: 2
Candidate Starts for Samisti12_11:
(Start: 2 @6760 has 54 MA's), (3, 6715), (4, 6709), (6, 6694), (12, 6586), (14, 6517),

Gene: Squillium_11 Start: 6427, Stop: 6155, Start Num: 2
Candidate Starts for Squillium_11:
(Start: 2 @6427 has 54 MA's), (3, 6382), (4, 6376), (6, 6361), (12, 6253), (14, 6184),

Gene: Squillium_263 Start: 127951, Stop: 127679, Start Num: 2
Candidate Starts for Squillium_263:
(Start: 2 @127951 has 54 MA's), (3, 127906), (4, 127900), (6, 127885), (12, 127777), (14, 127708),

Gene: Sushi23_13 Start: 6760, Stop: 6488, Start Num: 2
Candidate Starts for Sushi23_13:
(Start: 2 @6760 has 54 MA's), (3, 6715), (4, 6709), (6, 6694), (12, 6586),

Gene: Sushi23_263 Start: 129603, Stop: 129331, Start Num: 2
Candidate Starts for Sushi23_263:
(Start: 2 @129603 has 54 MA's), (3, 129558), (4, 129552), (6, 129537), (12, 129429),

Gene: Targaryen_262 Start: 130726, Stop: 130454, Start Num: 2
Candidate Starts for Targaryen_262:
(Start: 1 @130732 has 4 MA's), (Start: 2 @130726 has 54 MA's), (3, 130681), (4, 130675), (6, 130660), (12, 130552),

Gene: Targaryen_11 Start: 7050, Stop: 6778, Start Num: 2
Candidate Starts for Targaryen_11:
(Start: 1 @7056 has 4 MA's), (Start: 2 @7050 has 54 MA's), (3, 7005), (4, 6999), (6, 6984), (12, 6876),

Gene: Teutsch_259 Start: 128970, Stop: 128698, Start Num: 2
Candidate Starts for Teutsch_259:
(Start: 2 @128970 has 54 MA's), (3, 128925), (4, 128919), (6, 128904), (12, 128796), (14, 128727),

Gene: Teutsch_12 Start: 6761, Stop: 6489, Start Num: 2
Candidate Starts for Teutsch_12:
(Start: 2 @6761 has 54 MA's), (3, 6716), (4, 6710), (6, 6695), (12, 6587), (14, 6518),

Gene: Tribute_12 Start: 6760, Stop: 6488, Start Num: 2
Candidate Starts for Tribute_12:
(Start: 2 @6760 has 54 MA's), (3, 6715), (4, 6709), (6, 6694), (12, 6586), (14, 6517),

Gene: Tribute_258 Start: 129304, Stop: 129032, Start Num: 2
Candidate Starts for Tribute_258:
(Start: 2 @129304 has 54 MA's), (3, 129259), (4, 129253), (6, 129238), (12, 129130), (14, 129061),

Gene: Warpy_14 Start: 6785, Stop: 6507, Start Num: 1
Candidate Starts for Warpy_14:
(Start: 1 @6785 has 4 MA's), (Start: 2 @6779 has 54 MA's), (3, 6734), (4, 6728), (6, 6713), (12, 6605),

Gene: Warpy_266 Start: 128323, Stop: 128045, Start Num: 1
Candidate Starts for Warpy_266:
(Start: 1 @128323 has 4 MA's), (Start: 2 @128317 has 54 MA's), (3, 128272), (4, 128266), (6, 128251), (12, 128143),

Gene: Watermoore_12 Start: 6761, Stop: 6489, Start Num: 2
Candidate Starts for Watermoore_12:
(Start: 2 @6761 has 54 MA's), (3, 6716), (4, 6710), (6, 6695), (12, 6587), (14, 6518),

Gene: Watermoore_259 Start: 129357, Stop: 129085, Start Num: 2
Candidate Starts for Watermoore_259:
(Start: 2 @129357 has 54 MA's), (3, 129312), (4, 129306), (6, 129291), (12, 129183), (14, 129114),

Gene: WhereRU_12 Start: 6225, Stop: 5953, Start Num: 2
Candidate Starts for WhereRU_12:
(Start: 2 @6225 has 54 MA's), (3, 6180), (4, 6174), (6, 6159), (12, 6051),

Gene: WhereRU_268 Start: 127370, Stop: 127098, Start Num: 2
Candidate Starts for WhereRU_268:
(Start: 2 @127370 has 54 MA's), (3, 127325), (4, 127319), (6, 127304), (12, 127196),