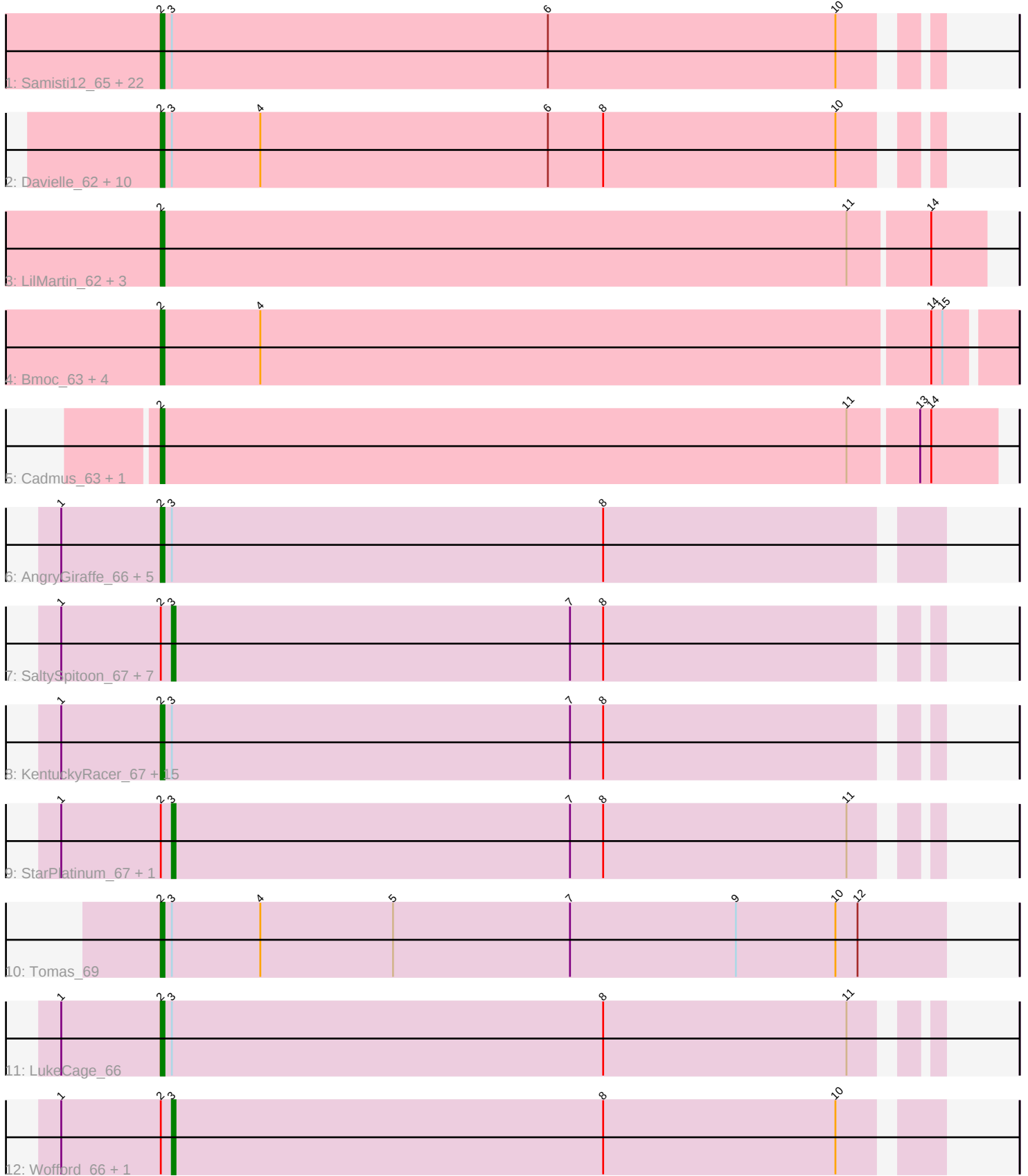


Pham 270858



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 270858 Report

This analysis was run 02/07/26 on database version 634.

Pham number 270858 has 81 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Samisti12_65, Jay2Jay_70, Tribute_63, Coogler_65, Scheme_66, Cross_65, Peebs_64, Watermoore_65, Targaryen_66, Leo04_66, EGole_66, Pepperwood_65, PacManQ_64, HangryHippo_65, Warpy_69, Shuckle_63, Evy_66, Deutsch_65, Lululemon_64, Larnav_65, Sushi23_65, Cursive_63, BlueOtter_65
- Track 2 : Davielle_62, Braelyn_64, Persimmon_61, PinkiePie_63, Paradiddles_61, Navo_63, Squillium_64, WhereRU_62, Bartholomune_63, Liandry_64, NootNoot_61
- Track 3 : LilMartin_62, MulchMansion_62, Angela_62, Marsus_63
- Track 4 : Bmoc_63, Anedea_63, LilSaint_69, Riptide_62, Mildred21_63
- Track 5 : Cadmus_63, Daubenski_66
- Track 6 : AngryGiraffe_66, Genie2_67, Yaboi_67, Stanimal_67, Sollertia_67, BoomerJR_67
- Track 7 : SaltySpittoon_67, AcciDwight_71, Jollison_66, Starbow_65, Enygma_67, Spelly_67, Bordeaux_65, Rikishi_67
- Track 8 : KentuckyRacer_67, MindFlayer_65, Amabiko_67, Karimac_66, IchabodCrane_64, Birchlyn_64, Gibbi_71, Battuta_65, Brizzy_66, Wipeout_65, PumpkinSpice_66, JimJam_67, TomSawyer_65, Spilled_68, CeilingFan_66, Quarant19_67
- Track 9 : StarPlatinum_67, Mugiwarra_66
- Track 10 : Tomas_69
- Track 11 : LukeCage_66
- Track 12 : Wofford_66, Elmer_69

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 67 of the 78 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amabiko_67, Anedea_63, Angela_62, AngryGiraffe_66, Bartholomune_63, Battuta_65, Birchlyn_64, BlueOtter_65, Bmoc_63, BoomerJR_67, Braelyn_64, Brizzy_66, Cadmus_63, CeilingFan_66, Coogler_65, Cross_65, Cursive_63, Daubenski_66, Davielle_62, EGole_66, Evy_66, Genie2_67, Gibbi_71, HangryHippo_65, IchabodCrane_64, Jay2Jay_70, JimJam_67, Karimac_66, KentuckyRacer_67, Larnav_65, Leo04_66, Liandry_64, LilMartin_62, LilSaint_69,

LukeCage_66, Lululemon_64, Marsus_63, Mildred21_63, MindFlayer_65, MulchMansion_62, Navo_63, NootNoot_61, PacManQ_64, Paradiddles_61, Peebs_64, Pepperwood_65, Persimmon_61, PinkiePie_63, PumpkinSpice_66, Quarant19_67, Riptide_62, Samisti12_65, Scheme_66, Shuckle_63, Sollertia_67, Spilled_68, Squillium_64, Stanimal_67, Sushi23_65, Targaryen_66, Teutsch_65, TomSawyer_65, Tomas_69, Tribute_63, Warpy_69, Watermoore_65, WhereRU_62, Wipeout_65, Yaboi_67,

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

- AcciDwight_71, Bordeaux_65, Elmer_69, Enygma_67, Jollison_66, Mugiwarra_66, Rikishi_67, SaltySpitoon_67, Spelly_67, StarPlatinum_67, Starbow_65, Wofford_66,

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

-

Summary by start number:

Start 2:

- Found in 81 of 81 (100.0%) of genes in pham
- Manual Annotations of this start: 67 of 78
- Called 85.2% of time when present
- Phage (with cluster) where this start called: Amabiko_67 (BE2), Anedea_63 (BE1), Angela_62 (BE1), AngryGiraffe_66 (BE2), Bartholomune_63 (BE1), Battuta_65 (BE2), Birchlyn_64 (BE2), BlueOtter_65 (BE1), Bmoc_63 (BE1), BoomerJR_67 (BE2), Braelyn_64 (BE1), Brizzy_66 (BE2), Cadmus_63 (BE1), CeilingFan_66 (BE2), Coogler_65 (BE1), Cross_65 (BE1), Cursive_63 (BE1), Daubenski_66 (BE1), Davielle_62 (BE1), EGole_66 (BE1), Evy_66 (BE1), Genie2_67 (BE2), Gibbi_71 (BE2), HangryHippo_65 (BE1), IchabodCrane_64 (BE2), Jay2Jay_70 (BE1), JimJam_67 (BE2), Karimac_66 (BE2), KentuckyRacer_67 (BE2), Larnav_65 (BE1), Leo04_66 (BE1), Liandry_64 (BE1), LilMartin_62 (BE1), LilSaint_69 (BE1), LukeCage_66 (BE2), Lululemon_64 (BE1), Marsus_63 (BE1), Mildred21_63 (BE1), MindFlayer_65 (BE2), MulchMansion_62 (BE1), Navo_63 (BE1), NootNoot_61 (BE1), PacManQ_64 (BE1), Paradiddles_61 (BE1), Peebs_64 (BE1), Pepperwood_65 (BE1), Persimmon_61 (BE1), PinkiePie_63 (BE1), PumpkinSpice_66 (BE2), Quarant19_67 (BE2), Riptide_62 (BE1), Samisti12_65 (BE1), Scheme_66 (BE1), Shuckle_63 (BE1), Sollertia_67 (BE2), Spilled_68 (BE2), Squillium_64 (BE1), Stanimal_67 (BE2), Sushi23_65 (BE1), Targaryen_66 (BE1), Teutsch_65 (BE1), TomSawyer_65 (BE2), Tomas_69 (BE2), Tribute_63 (BE1), Warpy_69 (BE1), Watermoore_65 (BE1), WhereRU_62 (BE1), Wipeout_65 (BE2), Yaboi_67 (BE2),

Start 3:

- Found in 70 of 81 (86.4%) of genes in pham
- Manual Annotations of this start: 11 of 78
- Called 17.1% of time when present
- Phage (with cluster) where this start called: AcciDwight_71 (BE2), Bordeaux_65 (BE2), Elmer_69 (BE2), Enygma_67 (BE2), Jollison_66 (BE2), Mugiwarra_66 (BE2), Rikishi_67 (BE2), SaltySpitoon_67 (BE2), Spelly_67 (BE2), StarPlatinum_67 (BE2), Starbow_65 (BE2), Wofford_66 (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 44 times for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 2 was manually annotated 23 times for cluster BE2.
- Start number 3 was manually annotated 11 times for cluster BE2.

Gene Information:

Gene: AcciDwight_71 Start: 50928, Stop: 51128, Start Num: 3

Candidate Starts for AcciDwight_71:

(1, 50898), (Start: 2 @50925 has 67 MA's), (Start: 3 @50928 has 11 MA's), (7, 51036), (8, 51045),

Gene: Amabiko_67 Start: 50970, Stop: 51173, Start Num: 2

Candidate Starts for Amabiko_67:

(1, 50943), (Start: 2 @50970 has 67 MA's), (Start: 3 @50973 has 11 MA's), (7, 51081), (8, 51090),

Gene: Anedea_63 Start: 50520, Stop: 50747, Start Num: 2

Candidate Starts for Anedea_63:

(Start: 2 @50520 has 67 MA's), (4, 50547), (14, 50727), (15, 50730),

Gene: Angela_62 Start: 49984, Stop: 50205, Start Num: 2

Candidate Starts for Angela_62:

(Start: 2 @49984 has 67 MA's), (11, 50170), (14, 50191),

Gene: AngryGiraffe_66 Start: 50932, Stop: 51138, Start Num: 2

Candidate Starts for AngryGiraffe_66:

(1, 50905), (Start: 2 @50932 has 67 MA's), (Start: 3 @50935 has 11 MA's), (8, 51052),

Gene: Bartholomune_63 Start: 50273, Stop: 50476, Start Num: 2

Candidate Starts for Bartholomune_63:

(Start: 2 @50273 has 67 MA's), (Start: 3 @50276 has 11 MA's), (4, 50300), (6, 50378), (8, 50393), (10, 50456),

Gene: Battuta_65 Start: 50944, Stop: 51147, Start Num: 2

Candidate Starts for Battuta_65:

(1, 50917), (Start: 2 @50944 has 67 MA's), (Start: 3 @50947 has 11 MA's), (7, 51055), (8, 51064),

Gene: Birchlyn_64 Start: 48827, Stop: 49030, Start Num: 2

Candidate Starts for Birchlyn_64:

(1, 48800), (Start: 2 @48827 has 67 MA's), (Start: 3 @48830 has 11 MA's), (7, 48938), (8, 48947),

Gene: BlueOtter_65 Start: 51650, Stop: 51853, Start Num: 2

Candidate Starts for BlueOtter_65:

(Start: 2 @51650 has 67 MA's), (Start: 3 @51653 has 11 MA's), (6, 51755), (10, 51833),

Gene: Bmoc_63 Start: 50324, Stop: 50551, Start Num: 2

Candidate Starts for Bmoc_63:

(Start: 2 @50324 has 67 MA's), (4, 50351), (14, 50531), (15, 50534),

Gene: BoomerJR_67 Start: 50821, Stop: 51027, Start Num: 2

Candidate Starts for BoomerJR_67:

(1, 50794), (Start: 2 @50821 has 67 MA's), (Start: 3 @50824 has 11 MA's), (8, 50941),

Gene: Bordeaux_65 Start: 51102, Stop: 51302, Start Num: 3

Candidate Starts for Bordeaux_65:

(1, 51072), (Start: 2 @51099 has 67 MA's), (Start: 3 @51102 has 11 MA's), (7, 51210), (8, 51219),

Gene: Braelyn_64 Start: 51040, Stop: 51243, Start Num: 2

Candidate Starts for Braelyn_64:

(Start: 2 @51040 has 67 MA's), (Start: 3 @51043 has 11 MA's), (4, 51067), (6, 51145), (8, 51160), (10, 51223),

Gene: Brizzy_66 Start: 50618, Stop: 50821, Start Num: 2

Candidate Starts for Brizzy_66:

(1, 50591), (Start: 2 @50618 has 67 MA's), (Start: 3 @50621 has 11 MA's), (7, 50729), (8, 50738),

Gene: Cadmus_63 Start: 50629, Stop: 50853, Start Num: 2

Candidate Starts for Cadmus_63:

(Start: 2 @50629 has 67 MA's), (11, 50815), (13, 50833), (14, 50836),

Gene: CeilingFan_66 Start: 50859, Stop: 51062, Start Num: 2

Candidate Starts for CeilingFan_66:

(1, 50832), (Start: 2 @50859 has 67 MA's), (Start: 3 @50862 has 11 MA's), (7, 50970), (8, 50979),

Gene: Coogler_65 Start: 51676, Stop: 51879, Start Num: 2

Candidate Starts for Coogler_65:

(Start: 2 @51676 has 67 MA's), (Start: 3 @51679 has 11 MA's), (6, 51781), (10, 51859),

Gene: Cross_65 Start: 51651, Stop: 51854, Start Num: 2

Candidate Starts for Cross_65:

(Start: 2 @51651 has 67 MA's), (Start: 3 @51654 has 11 MA's), (6, 51756), (10, 51834),

Gene: Cursive_63 Start: 51176, Stop: 51379, Start Num: 2

Candidate Starts for Cursive_63:

(Start: 2 @51176 has 67 MA's), (Start: 3 @51179 has 11 MA's), (6, 51281), (10, 51359),

Gene: Daubenski_66 Start: 51393, Stop: 51617, Start Num: 2

Candidate Starts for Daubenski_66:

(Start: 2 @51393 has 67 MA's), (11, 51579), (13, 51597), (14, 51600),

Gene: Davielle_62 Start: 50460, Stop: 50663, Start Num: 2

Candidate Starts for Davielle_62:

(Start: 2 @50460 has 67 MA's), (Start: 3 @50463 has 11 MA's), (4, 50487), (6, 50565), (8, 50580), (10, 50643),

Gene: EGole_66 Start: 52597, Stop: 52800, Start Num: 2

Candidate Starts for EGole_66:

(Start: 2 @52597 has 67 MA's), (Start: 3 @52600 has 11 MA's), (6, 52702), (10, 52780),

Gene: Elmer_69 Start: 52037, Stop: 52240, Start Num: 3

Candidate Starts for Elmer_69:

(1, 52007), (Start: 2 @52034 has 67 MA's), (Start: 3 @52037 has 11 MA's), (8, 52154), (10, 52217),

Gene: Enygma_67 Start: 52765, Stop: 52965, Start Num: 3
Candidate Starts for Enygma_67:
(1, 52735), (Start: 2 @52762 has 67 MA's), (Start: 3 @52765 has 11 MA's), (7, 52873), (8, 52882),

Gene: Evy_66 Start: 51640, Stop: 51843, Start Num: 2
Candidate Starts for Evy_66:
(Start: 2 @51640 has 67 MA's), (Start: 3 @51643 has 11 MA's), (6, 51745), (10, 51823),

Gene: Genie2_67 Start: 50935, Stop: 51141, Start Num: 2
Candidate Starts for Genie2_67:
(1, 50908), (Start: 2 @50935 has 67 MA's), (Start: 3 @50938 has 11 MA's), (8, 51055),

Gene: Gibbi_71 Start: 51082, Stop: 51285, Start Num: 2
Candidate Starts for Gibbi_71:
(1, 51055), (Start: 2 @51082 has 67 MA's), (Start: 3 @51085 has 11 MA's), (7, 51193), (8, 51202),

Gene: HangryHippo_65 Start: 51650, Stop: 51853, Start Num: 2
Candidate Starts for HangryHippo_65:
(Start: 2 @51650 has 67 MA's), (Start: 3 @51653 has 11 MA's), (6, 51755), (10, 51833),

Gene: IchabodCrane_64 Start: 50671, Stop: 50874, Start Num: 2
Candidate Starts for IchabodCrane_64:
(1, 50644), (Start: 2 @50671 has 67 MA's), (Start: 3 @50674 has 11 MA's), (7, 50782), (8, 50791),

Gene: Jay2Jay_70 Start: 52493, Stop: 52696, Start Num: 2
Candidate Starts for Jay2Jay_70:
(Start: 2 @52493 has 67 MA's), (Start: 3 @52496 has 11 MA's), (6, 52598), (10, 52676),

Gene: JimJam_67 Start: 51045, Stop: 51248, Start Num: 2
Candidate Starts for JimJam_67:
(1, 51018), (Start: 2 @51045 has 67 MA's), (Start: 3 @51048 has 11 MA's), (7, 51156), (8, 51165),

Gene: Jollison_66 Start: 50930, Stop: 51130, Start Num: 3
Candidate Starts for Jollison_66:
(1, 50900), (Start: 2 @50927 has 67 MA's), (Start: 3 @50930 has 11 MA's), (7, 51038), (8, 51047),

Gene: Karimac_66 Start: 51076, Stop: 51279, Start Num: 2
Candidate Starts for Karimac_66:
(1, 51049), (Start: 2 @51076 has 67 MA's), (Start: 3 @51079 has 11 MA's), (7, 51187), (8, 51196),

Gene: KentuckyRacer_67 Start: 50860, Stop: 51063, Start Num: 2
Candidate Starts for KentuckyRacer_67:
(1, 50833), (Start: 2 @50860 has 67 MA's), (Start: 3 @50863 has 11 MA's), (7, 50971), (8, 50980),

Gene: Larnav_65 Start: 51635, Stop: 51838, Start Num: 2
Candidate Starts for Larnav_65:
(Start: 2 @51635 has 67 MA's), (Start: 3 @51638 has 11 MA's), (6, 51740), (10, 51818),

Gene: Leo04_66 Start: 52150, Stop: 52353, Start Num: 2
Candidate Starts for Leo04_66:
(Start: 2 @52150 has 67 MA's), (Start: 3 @52153 has 11 MA's), (6, 52255), (10, 52333),

Gene: Liandry_64 Start: 51022, Stop: 51225, Start Num: 2

Candidate Starts for Liandry_64:

(Start: 2 @51022 has 67 MA's), (Start: 3 @51025 has 11 MA's), (4, 51049), (6, 51127), (8, 51142), (10, 51205),

Gene: LilMartin_62 Start: 49932, Stop: 50153, Start Num: 2

Candidate Starts for LilMartin_62:

(Start: 2 @49932 has 67 MA's), (11, 50118), (14, 50139),

Gene: LilSaint_69 Start: 50192, Stop: 50419, Start Num: 2

Candidate Starts for LilSaint_69:

(Start: 2 @50192 has 67 MA's), (4, 50219), (14, 50399), (15, 50402),

Gene: LukeCage_66 Start: 50830, Stop: 51033, Start Num: 2

Candidate Starts for LukeCage_66:

(1, 50803), (Start: 2 @50830 has 67 MA's), (Start: 3 @50833 has 11 MA's), (8, 50950), (11, 51016),

Gene: Lululemon_64 Start: 51031, Stop: 51234, Start Num: 2

Candidate Starts for Lululemon_64:

(Start: 2 @51031 has 67 MA's), (Start: 3 @51034 has 11 MA's), (6, 51136), (10, 51214),

Gene: Marsus_63 Start: 50204, Stop: 50425, Start Num: 2

Candidate Starts for Marsus_63:

(Start: 2 @50204 has 67 MA's), (11, 50390), (14, 50411),

Gene: Mildred21_63 Start: 50119, Stop: 50349, Start Num: 2

Candidate Starts for Mildred21_63:

(Start: 2 @50119 has 67 MA's), (4, 50146), (14, 50326), (15, 50329),

Gene: MindFlayer_65 Start: 50578, Stop: 50781, Start Num: 2

Candidate Starts for MindFlayer_65:

(1, 50551), (Start: 2 @50578 has 67 MA's), (Start: 3 @50581 has 11 MA's), (7, 50689), (8, 50698),

Gene: Mugiwara_66 Start: 51332, Stop: 51532, Start Num: 3

Candidate Starts for Mugiwara_66:

(1, 51302), (Start: 2 @51329 has 67 MA's), (Start: 3 @51332 has 11 MA's), (7, 51440), (8, 51449), (11, 51515),

Gene: MulchMansion_62 Start: 49932, Stop: 50153, Start Num: 2

Candidate Starts for MulchMansion_62:

(Start: 2 @49932 has 67 MA's), (11, 50118), (14, 50139),

Gene: Navo_63 Start: 50944, Stop: 51147, Start Num: 2

Candidate Starts for Navo_63:

(Start: 2 @50944 has 67 MA's), (Start: 3 @50947 has 11 MA's), (4, 50971), (6, 51049), (8, 51064), (10, 51127),

Gene: NootNoot_61 Start: 49936, Stop: 50139, Start Num: 2

Candidate Starts for NootNoot_61:

(Start: 2 @49936 has 67 MA's), (Start: 3 @49939 has 11 MA's), (4, 49963), (6, 50041), (8, 50056), (10, 50119),

Gene: PacManQ_64 Start: 51031, Stop: 51234, Start Num: 2

Candidate Starts for PacManQ_64:

(Start: 2 @51031 has 67 MA's), (Start: 3 @51034 has 11 MA's), (6, 51136), (10, 51214),

Gene: Paradiddles_61 Start: 50200, Stop: 50403, Start Num: 2

Candidate Starts for Paradiddles_61:

(Start: 2 @50200 has 67 MA's), (Start: 3 @50203 has 11 MA's), (4, 50227), (6, 50305), (8, 50320), (10, 50383),

Gene: Peebs_64 Start: 51385, Stop: 51588, Start Num: 2

Candidate Starts for Peebs_64:

(Start: 2 @51385 has 67 MA's), (Start: 3 @51388 has 11 MA's), (6, 51490), (10, 51568),

Gene: Pepperwood_65 Start: 51518, Stop: 51721, Start Num: 2

Candidate Starts for Pepperwood_65:

(Start: 2 @51518 has 67 MA's), (Start: 3 @51521 has 11 MA's), (6, 51623), (10, 51701),

Gene: Persimmon_61 Start: 49869, Stop: 50072, Start Num: 2

Candidate Starts for Persimmon_61:

(Start: 2 @49869 has 67 MA's), (Start: 3 @49872 has 11 MA's), (4, 49896), (6, 49974), (8, 49989), (10, 50052),

Gene: PinkiePie_63 Start: 51022, Stop: 51225, Start Num: 2

Candidate Starts for PinkiePie_63:

(Start: 2 @51022 has 67 MA's), (Start: 3 @51025 has 11 MA's), (4, 51049), (6, 51127), (8, 51142), (10, 51205),

Gene: PumpkinSpice_66 Start: 50970, Stop: 51173, Start Num: 2

Candidate Starts for PumpkinSpice_66:

(1, 50943), (Start: 2 @50970 has 67 MA's), (Start: 3 @50973 has 11 MA's), (7, 51081), (8, 51090),

Gene: Quarant19_67 Start: 50961, Stop: 51164, Start Num: 2

Candidate Starts for Quarant19_67:

(1, 50934), (Start: 2 @50961 has 67 MA's), (Start: 3 @50964 has 11 MA's), (7, 51072), (8, 51081),

Gene: Rikishi_67 Start: 50879, Stop: 51079, Start Num: 3

Candidate Starts for Rikishi_67:

(1, 50849), (Start: 2 @50876 has 67 MA's), (Start: 3 @50879 has 11 MA's), (7, 50987), (8, 50996),

Gene: Riptide_62 Start: 49742, Stop: 49969, Start Num: 2

Candidate Starts for Riptide_62:

(Start: 2 @49742 has 67 MA's), (4, 49769), (14, 49949), (15, 49952),

Gene: SaltySpittoon_67 Start: 50973, Stop: 51173, Start Num: 3

Candidate Starts for SaltySpittoon_67:

(1, 50943), (Start: 2 @50970 has 67 MA's), (Start: 3 @50973 has 11 MA's), (7, 51081), (8, 51090),

Gene: Samisti12_65 Start: 52825, Stop: 53028, Start Num: 2

Candidate Starts for Samisti12_65:

(Start: 2 @52825 has 67 MA's), (Start: 3 @52828 has 11 MA's), (6, 52930), (10, 53008),

Gene: Scheme_66 Start: 52232, Stop: 52435, Start Num: 2

Candidate Starts for Scheme_66:

(Start: 2 @52232 has 67 MA's), (Start: 3 @52235 has 11 MA's), (6, 52337), (10, 52415),

Gene: Shuckle_63 Start: 51839, Stop: 52042, Start Num: 2

Candidate Starts for Shuckle_63:

(Start: 2 @51839 has 67 MA's), (Start: 3 @51842 has 11 MA's), (6, 51944), (10, 52022),

Gene: Sollertia_67 Start: 50935, Stop: 51141, Start Num: 2

Candidate Starts for Sollertia_67:

(1, 50908), (Start: 2 @50935 has 67 MA's), (Start: 3 @50938 has 11 MA's), (8, 51055),

Gene: Spelly_67 Start: 50928, Stop: 51128, Start Num: 3

Candidate Starts for Spelly_67:

(1, 50898), (Start: 2 @50925 has 67 MA's), (Start: 3 @50928 has 11 MA's), (7, 51036), (8, 51045),

Gene: Spilled_68 Start: 51042, Stop: 51245, Start Num: 2

Candidate Starts for Spilled_68:

(1, 51015), (Start: 2 @51042 has 67 MA's), (Start: 3 @51045 has 11 MA's), (7, 51153), (8, 51162),

Gene: Squillum_64 Start: 51023, Stop: 51226, Start Num: 2

Candidate Starts for Squillum_64:

(Start: 2 @51023 has 67 MA's), (Start: 3 @51026 has 11 MA's), (4, 51050), (6, 51128), (8, 51143), (10, 51206),

Gene: Stanimal_67 Start: 50824, Stop: 51030, Start Num: 2

Candidate Starts for Stanimal_67:

(1, 50797), (Start: 2 @50824 has 67 MA's), (Start: 3 @50827 has 11 MA's), (8, 50944),

Gene: StarPlatinum_67 Start: 51473, Stop: 51673, Start Num: 3

Candidate Starts for StarPlatinum_67:

(1, 51443), (Start: 2 @51470 has 67 MA's), (Start: 3 @51473 has 11 MA's), (7, 51581), (8, 51590), (11, 51656),

Gene: Starbow_65 Start: 50949, Stop: 51149, Start Num: 3

Candidate Starts for Starbow_65:

(1, 50919), (Start: 2 @50946 has 67 MA's), (Start: 3 @50949 has 11 MA's), (7, 51057), (8, 51066),

Gene: Sushi23_65 Start: 51743, Stop: 51946, Start Num: 2

Candidate Starts for Sushi23_65:

(Start: 2 @51743 has 67 MA's), (Start: 3 @51746 has 11 MA's), (6, 51848), (10, 51926),

Gene: Targaryen_66 Start: 52542, Stop: 52745, Start Num: 2

Candidate Starts for Targaryen_66:

(Start: 2 @52542 has 67 MA's), (Start: 3 @52545 has 11 MA's), (6, 52647), (10, 52725),

Gene: Teutsch_65 Start: 52006, Stop: 52209, Start Num: 2

Candidate Starts for Teutsch_65:

(Start: 2 @52006 has 67 MA's), (Start: 3 @52009 has 11 MA's), (6, 52111), (10, 52189),

Gene: TomSawyer_65 Start: 50564, Stop: 50767, Start Num: 2

Candidate Starts for TomSawyer_65:

(1, 50537), (Start: 2 @50564 has 67 MA's), (Start: 3 @50567 has 11 MA's), (7, 50675), (8, 50684),

Gene: Tomas_69 Start: 53278, Stop: 53490, Start Num: 2

Candidate Starts for Tomas_69:

(Start: 2 @53278 has 67 MA's), (Start: 3 @53281 has 11 MA's), (4, 53305), (5, 53341), (7, 53389), (9, 53434), (10, 53461), (12, 53467),

Gene: Tribute_63 Start: 51212, Stop: 51415, Start Num: 2

Candidate Starts for Tribute_63:

(Start: 2 @51212 has 67 MA's), (Start: 3 @51215 has 11 MA's), (6, 51317), (10, 51395),

Gene: Warpy_69 Start: 52006, Stop: 52209, Start Num: 2

Candidate Starts for Warpy_69:

(Start: 2 @52006 has 67 MA's), (Start: 3 @52009 has 11 MA's), (6, 52111), (10, 52189),

Gene: Watermoore_65 Start: 52222, Stop: 52425, Start Num: 2

Candidate Starts for Watermoore_65:

(Start: 2 @52222 has 67 MA's), (Start: 3 @52225 has 11 MA's), (6, 52327), (10, 52405),

Gene: WhereRU_62 Start: 50460, Stop: 50663, Start Num: 2

Candidate Starts for WhereRU_62:

(Start: 2 @50460 has 67 MA's), (Start: 3 @50463 has 11 MA's), (4, 50487), (6, 50565), (8, 50580), (10, 50643),

Gene: Wipeout_65 Start: 51315, Stop: 51518, Start Num: 2

Candidate Starts for Wipeout_65:

(1, 51288), (Start: 2 @51315 has 67 MA's), (Start: 3 @51318 has 11 MA's), (7, 51426), (8, 51435),

Gene: Wofford_66 Start: 52000, Stop: 52203, Start Num: 3

Candidate Starts for Wofford_66:

(1, 51970), (Start: 2 @51997 has 67 MA's), (Start: 3 @52000 has 11 MA's), (8, 52117), (10, 52180),

Gene: Yaboi_67 Start: 50912, Stop: 51118, Start Num: 2

Candidate Starts for Yaboi_67:

(1, 50885), (Start: 2 @50912 has 67 MA's), (Start: 3 @50915 has 11 MA's), (8, 51032),