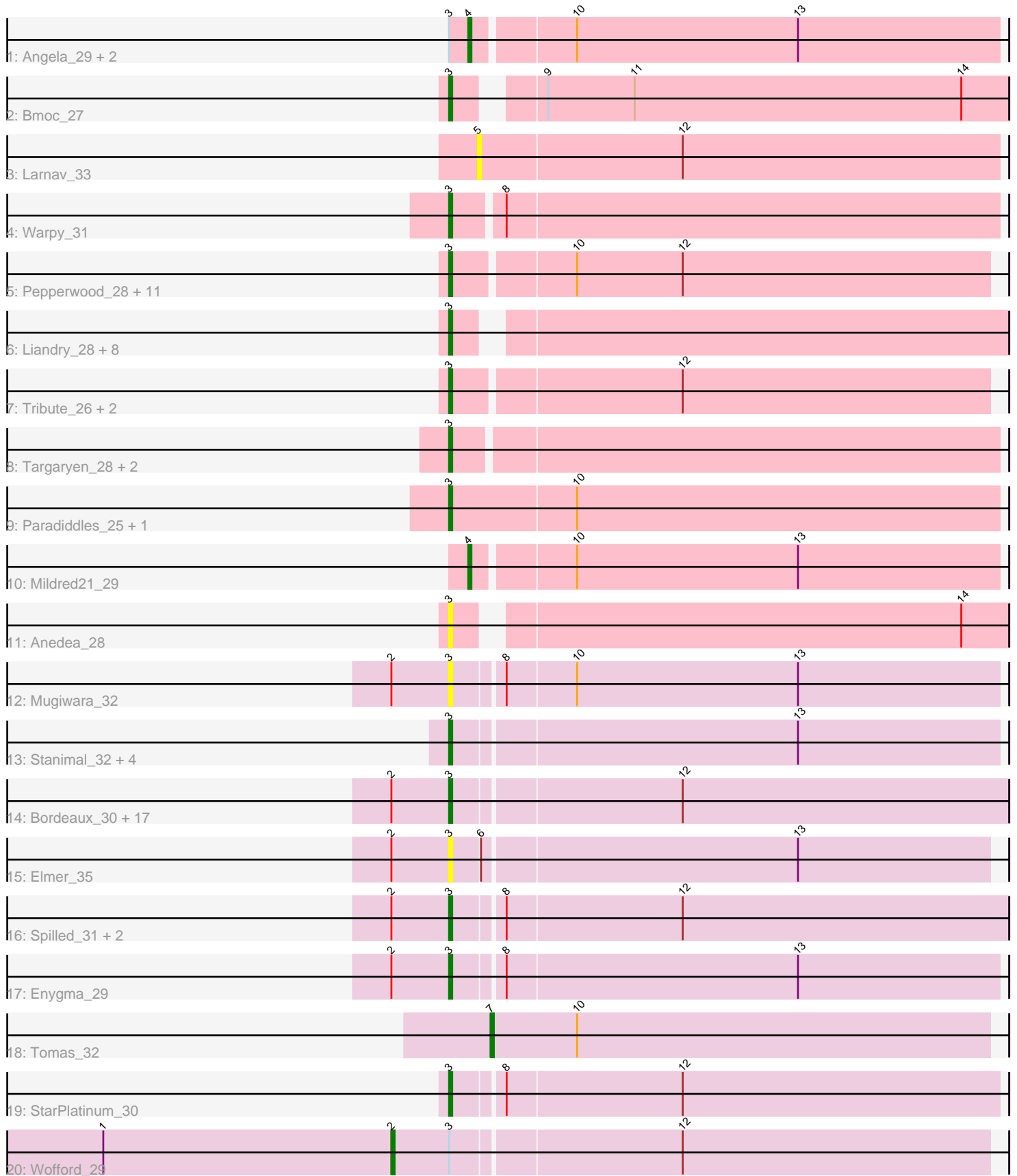


Pham 1842



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 1842 Report

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

Pham number 1842 has 69 members, 14 are drafts.

Phages represented in each track:

- Track 1 : Angela_29, MulchMansion_29, LilMartin_29
- Track 2 : Bmoc_27
- Track 3 : Larnav_33
- Track 4 : Warpy_31
- Track 5 : Pepperwood_28, BlueOtter_30, Daubenski_30, Cross_28, Sushi23_28, Peebs_27, Lululemon_30, Watermoore_28, Leo04_28, Cursive_26, PacManQ_30, HangryHippo_30
- Track 6 : Liandry_28, Bartholomune_28, PinkiePie_28, Persimmon_25, Samisti12_25, Braelyn_28, Navo_29, WhereRU_27, Squillium_28
- Track 7 : Tribute_26, Teutsch_27, EGole_26
- Track 8 : Targaryen_28, Jay2Jay_31, Evy_29
- Track 9 : Paradiddles_25, NootNoot_25
- Track 10 : Mildred21_29
- Track 11 : Anedea_28
- Track 12 : Mugiwara_32
- Track 13 : Stanimal_32, BoomerJR_32, Sollertia_32, Yaboi_33, Genie2_32
- Track 14 : Bordeaux_30, PumpkinSpice_31, Starbow_30, Amabiko_32, MindFlayer_30, TomSawyer_30, Battuta_30, Gibbi_34, Spelly_32, KentuckyRacer_35, CeilingFan_34, Wipeout_30, Jollison_35, Karimac_31, Quaran19_32, SaltySpittoon_32, JimJam_32, Birchlyn_29
- Track 15 : Elmer_35
- Track 16 : Spilled_31, LukeCage_31, IchabodCrane_29
- Track 17 : Enygma_29
- Track 18 : Tomas_32
- Track 19 : StarPlatinum_30
- Track 20 : Wofford_29

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 49 of the 55 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amabiko_32, Anedea_28, Bartholomune_28, Battuta_30, Birchlyn_29, BlueOtter_30, Bmoc_27, BoomerJR_32, Bordeaux_30, Braelyn_28, CeilingFan_34, Cross_28, Cursive_26, Daubenski_30, EGole_26, Elmer_35, Enygma_29, Evy_29, Genie2_32, Gibbi_34, HangryHippo_30, IchabodCrane_29, Jay2Jay_31, JimJam_32, Jollison_35, Karimac_31, KentuckyRacer_35, Leo04_28, Liandry_28, LukeCage_31, Lululemon_30, MindFlayer_30, Mugiwarra_32, Navo_29, NootNoot_25, PacManQ_30, Paradiddles_25, Peebs_27, Pepperwood_28, Persimmon_25, PinkiePie_28, PumpkinSpice_31, Quarant19_32, SaltySpittoon_32, Samisti12_25, Sollertia_32, Spelly_32, Spilled_31, Squillium_28, Stanimal_32, StarPlatinum_30, Starbow_30, Sushi23_28, Targaryen_28, Teutsch_27, TomSawyer_30, Tribute_26, Warpy_31, Watermoore_28, WhereRU_27, Wipeout_30, Yaboi_33,

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

- Angela_29, LilMartin_29, MulchMansion_29, Wofford_29,

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

- Larnav_33, Mildred21_29, Tomas_32,

Summary by start number:

Start 2:

- Found in 25 of 69 (36.2%) of genes in pham
- Manual Annotations of this start: 1 of 55
- Called 4.0% of time when present
- Phage (with cluster) where this start called: Wofford_29 (BE2),

Start 3:

- Found in 66 of 69 (95.7%) of genes in pham
- Manual Annotations of this start: 49 of 55
- Called 93.9% of time when present
- Phage (with cluster) where this start called: Amabiko_32 (BE2), Anedea_28 (BE1), Bartholomune_28 (BE1), Battuta_30 (BE2), Birchlyn_29 (BE2), BlueOtter_30 (BE1), Bmoc_27 (BE1), BoomerJR_32 (BE2), Bordeaux_30 (BE2), Braelyn_28 (BE1), CeilingFan_34 (BE2), Cross_28 (BE1), Cursive_26 (BE1), Daubenski_30 (BE1), EGole_26 (BE1), Elmer_35 (BE2), Enygma_29 (BE2), Evy_29 (BE1), Genie2_32 (BE2), Gibbi_34 (BE2), HangryHippo_30 (BE1), IchabodCrane_29 (BE2), Jay2Jay_31 (BE1), JimJam_32 (BE2), Jollison_35 (BE2), Karimac_31 (BE2), KentuckyRacer_35 (BE2), Leo04_28 (BE1), Liandry_28 (BE1), LukeCage_31 (BE2), Lululemon_30 (BE1), MindFlayer_30 (BE2), Mugiwarra_32 (BE2), Navo_29 (BE1), NootNoot_25 (BE1), PacManQ_30 (BE1), Paradiddles_25 (BE1), Peebs_27 (BE1), Pepperwood_28 (BE1), Persimmon_25 (BE1), PinkiePie_28 (BE1), PumpkinSpice_31 (BE2), Quarant19_32 (BE2), SaltySpittoon_32 (BE2), Samisti12_25 (BE1), Sollertia_32 (BE2), Spelly_32 (BE2), Spilled_31 (BE2), Squillium_28 (BE1), Stanimal_32 (BE2), StarPlatinum_30 (BE2), Starbow_30 (BE2), Sushi23_28 (BE1), Targaryen_28 (BE1), Teutsch_27 (BE1), TomSawyer_30 (BE2), Tribute_26 (BE1), Warpy_31 (BE1), Watermoore_28 (BE1), WhereRU_27 (BE1), Wipeout_30 (BE2), Yaboi_33 (BE2),

Start 4:

- Found in 4 of 69 (5.8%) of genes in pham
- Manual Annotations of this start: 4 of 55
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Angela_29 (BE1), LilMartin_29 (BE1), Mildred21_29 (BE1), MulchMansion_29 (BE1),

Start 5:

- Found in 1 of 69 (1.4%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Larnav_33 (BE1),

Start 7:

- Found in 1 of 69 (1.4%) of genes in pham
- Manual Annotations of this start: 1 of 55
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Tomas_32 (BE2),

Summary by clusters:

There are 2 clusters represented in this pham: BE2, BE1,

Info for manual annotations of cluster BE1:

- Start number 3 was manually annotated 25 times for cluster BE1.
- Start number 4 was manually annotated 4 times for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 2 was manually annotated 1 time for cluster BE2.
- Start number 3 was manually annotated 24 times for cluster BE2.
- Start number 7 was manually annotated 1 time for cluster BE2.

Gene Information:

Gene: Amabiko_32 Start: 14232, Stop: 14062, Start Num: 3

Candidate Starts for Amabiko_32:

(Start: 2 @14250 has 1 MA's), (Start: 3 @14232 has 49 MA's), (12, 14163),

Gene: Anedea_28 Start: 12950, Stop: 12786, Start Num: 3

Candidate Starts for Anedea_28:

(Start: 3 @12950 has 49 MA's), (14, 12800),

Gene: Angela_29 Start: 13402, Stop: 13241, Start Num: 4

Candidate Starts for Angela_29:

(Start: 3 @13408 has 49 MA's), (Start: 4 @13402 has 4 MA's), (10, 13372), (13, 13303),

Gene: Bartholomune_28 Start: 12771, Stop: 12607, Start Num: 3

Candidate Starts for Bartholomune_28:

(Start: 3 @12771 has 49 MA's),

Gene: Battuta_30 Start: 14208, Stop: 14038, Start Num: 3

Candidate Starts for Battuta_30:

(Start: 2 @14226 has 1 MA's), (Start: 3 @14208 has 49 MA's), (12, 14139),

Gene: Birchlyn_29 Start: 12089, Stop: 11919, Start Num: 3

Candidate Starts for Birchlyn_29:
(Start: 2 @12107 has 1 MA's), (Start: 3 @12089 has 49 MA's), (12, 12020),

Gene: BlueOtter_30 Start: 12729, Stop: 12562, Start Num: 3
Candidate Starts for BlueOtter_30:
(Start: 3 @12729 has 49 MA's), (10, 12693), (12, 12660),

Gene: Bmoc_27 Start: 13128, Stop: 12964, Start Num: 3
Candidate Starts for Bmoc_27:
(Start: 3 @13128 has 49 MA's), (9, 13107), (11, 13080), (14, 12978),

Gene: BoomerJR_32 Start: 14033, Stop: 13866, Start Num: 3
Candidate Starts for BoomerJR_32:
(Start: 3 @14033 has 49 MA's), (13, 13928),

Gene: Bordeaux_30 Start: 14223, Stop: 14053, Start Num: 3
Candidate Starts for Bordeaux_30:
(Start: 2 @14241 has 1 MA's), (Start: 3 @14223 has 49 MA's), (12, 14154),

Gene: Braelyn_28 Start: 13166, Stop: 13002, Start Num: 3
Candidate Starts for Braelyn_28:
(Start: 3 @13166 has 49 MA's),

Gene: CeilingFan_34 Start: 13983, Stop: 13813, Start Num: 3
Candidate Starts for CeilingFan_34:
(Start: 2 @14001 has 1 MA's), (Start: 3 @13983 has 49 MA's), (12, 13914),

Gene: Cross_28 Start: 12730, Stop: 12563, Start Num: 3
Candidate Starts for Cross_28:
(Start: 3 @12730 has 49 MA's), (10, 12694), (12, 12661),

Gene: Cursive_26 Start: 11547, Stop: 11380, Start Num: 3
Candidate Starts for Cursive_26:
(Start: 3 @11547 has 49 MA's), (10, 11511), (12, 11478),

Gene: Daubenski_30 Start: 13141, Stop: 12977, Start Num: 3
Candidate Starts for Daubenski_30:
(Start: 3 @13141 has 49 MA's), (10, 13105), (12, 13072),

Gene: EGole_26 Start: 12739, Stop: 12575, Start Num: 3
Candidate Starts for EGole_26:
(Start: 3 @12739 has 49 MA's), (12, 12670),

Gene: Elmer_35 Start: 13429, Stop: 13265, Start Num: 3
Candidate Starts for Elmer_35:
(Start: 2 @13447 has 1 MA's), (Start: 3 @13429 has 49 MA's), (6, 13420), (13, 13324),

Gene: Enygma_29 Start: 13333, Stop: 13166, Start Num: 3
Candidate Starts for Enygma_29:
(Start: 2 @13351 has 1 MA's), (Start: 3 @13333 has 49 MA's), (8, 13318), (13, 13228),

Gene: Evy_29 Start: 12765, Stop: 12598, Start Num: 3
Candidate Starts for Evy_29:

(Start: 3 @12765 has 49 MA's),

Gene: Genie2_32 Start: 14036, Stop: 13869, Start Num: 3

Candidate Starts for Genie2_32:

(Start: 3 @14036 has 49 MA's), (13, 13931),

Gene: Gibbi_34 Start: 13843, Stop: 13673, Start Num: 3

Candidate Starts for Gibbi_34:

(Start: 2 @13861 has 1 MA's), (Start: 3 @13843 has 49 MA's), (12, 13774),

Gene: HangryHippo_30 Start: 12729, Stop: 12562, Start Num: 3

Candidate Starts for HangryHippo_30:

(Start: 3 @12729 has 49 MA's), (10, 12693), (12, 12660),

Gene: IchabodCrane_29 Start: 13836, Stop: 13666, Start Num: 3

Candidate Starts for IchabodCrane_29:

(Start: 2 @13854 has 1 MA's), (Start: 3 @13836 has 49 MA's), (8, 13821), (12, 13767),

Gene: Jay2Jay_31 Start: 12955, Stop: 12788, Start Num: 3

Candidate Starts for Jay2Jay_31:

(Start: 3 @12955 has 49 MA's),

Gene: JimJam_32 Start: 14171, Stop: 14001, Start Num: 3

Candidate Starts for JimJam_32:

(Start: 2 @14189 has 1 MA's), (Start: 3 @14171 has 49 MA's), (12, 14102),

Gene: Jollison_35 Start: 14189, Stop: 14019, Start Num: 3

Candidate Starts for Jollison_35:

(Start: 2 @14207 has 1 MA's), (Start: 3 @14189 has 49 MA's), (12, 14120),

Gene: Karimac_31 Start: 14239, Stop: 14069, Start Num: 3

Candidate Starts for Karimac_31:

(Start: 2 @14257 has 1 MA's), (Start: 3 @14239 has 49 MA's), (12, 14170),

Gene: KentuckyRacer_35 Start: 13984, Stop: 13814, Start Num: 3

Candidate Starts for KentuckyRacer_35:

(Start: 2 @14002 has 1 MA's), (Start: 3 @13984 has 49 MA's), (12, 13915),

Gene: Larnav_33 Start: 12682, Stop: 12521, Start Num: 5

Candidate Starts for Larnav_33:

(5, 12682), (12, 12619),

Gene: Leo04_28 Start: 12728, Stop: 12561, Start Num: 3

Candidate Starts for Leo04_28:

(Start: 3 @12728 has 49 MA's), (10, 12692), (12, 12659),

Gene: Liandry_28 Start: 12770, Stop: 12606, Start Num: 3

Candidate Starts for Liandry_28:

(Start: 3 @12770 has 49 MA's),

Gene: LilMartin_29 Start: 13349, Stop: 13188, Start Num: 4

Candidate Starts for LilMartin_29:

(Start: 3 @13355 has 49 MA's), (Start: 4 @13349 has 4 MA's), (10, 13319), (13, 13250),

Gene: LukeCage_31 Start: 13911, Stop: 13744, Start Num: 3

Candidate Starts for LukeCage_31:

(Start: 2 @13929 has 1 MA's), (Start: 3 @13911 has 49 MA's), (8, 13896), (12, 13842),

Gene: Lululemon_30 Start: 12109, Stop: 11942, Start Num: 3

Candidate Starts for Lululemon_30:

(Start: 3 @12109 has 49 MA's), (10, 12073), (12, 12040),

Gene: Mildred21_29 Start: 13051, Stop: 12890, Start Num: 4

Candidate Starts for Mildred21_29:

(Start: 4 @13051 has 4 MA's), (10, 13021), (13, 12952),

Gene: MindFlayer_30 Start: 13842, Stop: 13672, Start Num: 3

Candidate Starts for MindFlayer_30:

(Start: 2 @13860 has 1 MA's), (Start: 3 @13842 has 49 MA's), (12, 13773),

Gene: Mugiware_32 Start: 13738, Stop: 13571, Start Num: 3

Candidate Starts for Mugiware_32:

(Start: 2 @13756 has 1 MA's), (Start: 3 @13738 has 49 MA's), (8, 13723), (10, 13702), (13, 13633),

Gene: MulchMansion_29 Start: 13350, Stop: 13189, Start Num: 4

Candidate Starts for MulchMansion_29:

(Start: 3 @13356 has 49 MA's), (Start: 4 @13350 has 4 MA's), (10, 13320), (13, 13251),

Gene: Navo_29 Start: 12929, Stop: 12765, Start Num: 3

Candidate Starts for Navo_29:

(Start: 3 @12929 has 49 MA's),

Gene: NootNoot_25 Start: 11966, Stop: 11796, Start Num: 3

Candidate Starts for NootNoot_25:

(Start: 3 @11966 has 49 MA's), (10, 11927),

Gene: PacManQ_30 Start: 12109, Stop: 11942, Start Num: 3

Candidate Starts for PacManQ_30:

(Start: 3 @12109 has 49 MA's), (10, 12073), (12, 12040),

Gene: Paradiddles_25 Start: 11957, Stop: 11787, Start Num: 3

Candidate Starts for Paradiddles_25:

(Start: 3 @11957 has 49 MA's), (10, 11918),

Gene: Peebs_27 Start: 12428, Stop: 12264, Start Num: 3

Candidate Starts for Peebs_27:

(Start: 3 @12428 has 49 MA's), (10, 12392), (12, 12359),

Gene: Pepperwood_28 Start: 12601, Stop: 12437, Start Num: 3

Candidate Starts for Pepperwood_28:

(Start: 3 @12601 has 49 MA's), (10, 12565), (12, 12532),

Gene: Persimmon_25 Start: 12000, Stop: 11839, Start Num: 3

Candidate Starts for Persimmon_25:

(Start: 3 @12000 has 49 MA's),

Gene: PinkiePie_28 Start: 12771, Stop: 12607, Start Num: 3

Candidate Starts for PinkiePie_28:

(Start: 3 @12771 has 49 MA's),

Gene: PumpkinSpice_31 Start: 14232, Stop: 14062, Start Num: 3

Candidate Starts for PumpkinSpice_31:

(Start: 2 @14250 has 1 MA's), (Start: 3 @14232 has 49 MA's), (12, 14163),

Gene: Quaran19_32 Start: 14223, Stop: 14053, Start Num: 3

Candidate Starts for Quaran19_32:

(Start: 2 @14241 has 1 MA's), (Start: 3 @14223 has 49 MA's), (12, 14154),

Gene: SaltySpittoon_32 Start: 14232, Stop: 14062, Start Num: 3

Candidate Starts for SaltySpittoon_32:

(Start: 2 @14250 has 1 MA's), (Start: 3 @14232 has 49 MA's), (12, 14163),

Gene: Samisti12_25 Start: 12337, Stop: 12176, Start Num: 3

Candidate Starts for Samisti12_25:

(Start: 3 @12337 has 49 MA's),

Gene: Sollertia_32 Start: 14036, Stop: 13869, Start Num: 3

Candidate Starts for Sollertia_32:

(Start: 3 @14036 has 49 MA's), (13, 13931),

Gene: Spelly_32 Start: 14187, Stop: 14017, Start Num: 3

Candidate Starts for Spelly_32:

(Start: 2 @14205 has 1 MA's), (Start: 3 @14187 has 49 MA's), (12, 14118),

Gene: Spilled_31 Start: 13842, Stop: 13672, Start Num: 3

Candidate Starts for Spilled_31:

(Start: 2 @13860 has 1 MA's), (Start: 3 @13842 has 49 MA's), (8, 13827), (12, 13773),

Gene: Squillium_28 Start: 12770, Stop: 12606, Start Num: 3

Candidate Starts for Squillium_28:

(Start: 3 @12770 has 49 MA's),

Gene: Stanimal_32 Start: 14036, Stop: 13869, Start Num: 3

Candidate Starts for Stanimal_32:

(Start: 3 @14036 has 49 MA's), (13, 13931),

Gene: StarPlatinum_30 Start: 13836, Stop: 13669, Start Num: 3

Candidate Starts for StarPlatinum_30:

(Start: 3 @13836 has 49 MA's), (8, 13821), (12, 13767),

Gene: Starbow_30 Start: 14208, Stop: 14038, Start Num: 3

Candidate Starts for Starbow_30:

(Start: 2 @14226 has 1 MA's), (Start: 3 @14208 has 49 MA's), (12, 14139),

Gene: Sushi23_28 Start: 12824, Stop: 12660, Start Num: 3

Candidate Starts for Sushi23_28:

(Start: 3 @12824 has 49 MA's), (10, 12788), (12, 12755),

Gene: Targaryen_28 Start: 13512, Stop: 13345, Start Num: 3

Candidate Starts for Targaryen_28:
(Start: 3 @13512 has 49 MA's),

Gene: Deutsch_27 Start: 12517, Stop: 12353, Start Num: 3
Candidate Starts for Deutsch_27:
(Start: 3 @12517 has 49 MA's), (12, 12448),

Gene: TomSawyer_30 Start: 13826, Stop: 13656, Start Num: 3
Candidate Starts for TomSawyer_30:
(Start: 2 @13844 has 1 MA's), (Start: 3 @13826 has 49 MA's), (12, 13757),

Gene: Tomas_32 Start: 14358, Stop: 14203, Start Num: 7
Candidate Starts for Tomas_32:
(Start: 7 @14358 has 1 MA's), (10, 14331),

Gene: Tribute_26 Start: 12295, Stop: 12131, Start Num: 3
Candidate Starts for Tribute_26:
(Start: 3 @12295 has 49 MA's), (12, 12226),

Gene: Warpy_31 Start: 12975, Stop: 12808, Start Num: 3
Candidate Starts for Warpy_31:
(Start: 3 @12975 has 49 MA's), (8, 12960),

Gene: Watermoore_28 Start: 12730, Stop: 12563, Start Num: 3
Candidate Starts for Watermoore_28:
(Start: 3 @12730 has 49 MA's), (10, 12694), (12, 12661),

Gene: WhereRU_27 Start: 12000, Stop: 11839, Start Num: 3
Candidate Starts for WhereRU_27:
(Start: 3 @12000 has 49 MA's),

Gene: Wipeout_30 Start: 13848, Stop: 13678, Start Num: 3
Candidate Starts for Wipeout_30:
(Start: 2 @13866 has 1 MA's), (Start: 3 @13848 has 49 MA's), (12, 13779),

Gene: Wofford_29 Start: 13014, Stop: 12832, Start Num: 2
Candidate Starts for Wofford_29:
(1, 13104), (Start: 2 @13014 has 1 MA's), (Start: 3 @12996 has 49 MA's), (12, 12927),

Gene: Yaboi_33 Start: 14012, Stop: 13845, Start Num: 3
Candidate Starts for Yaboi_33:
(Start: 3 @14012 has 49 MA's), (13, 13907),