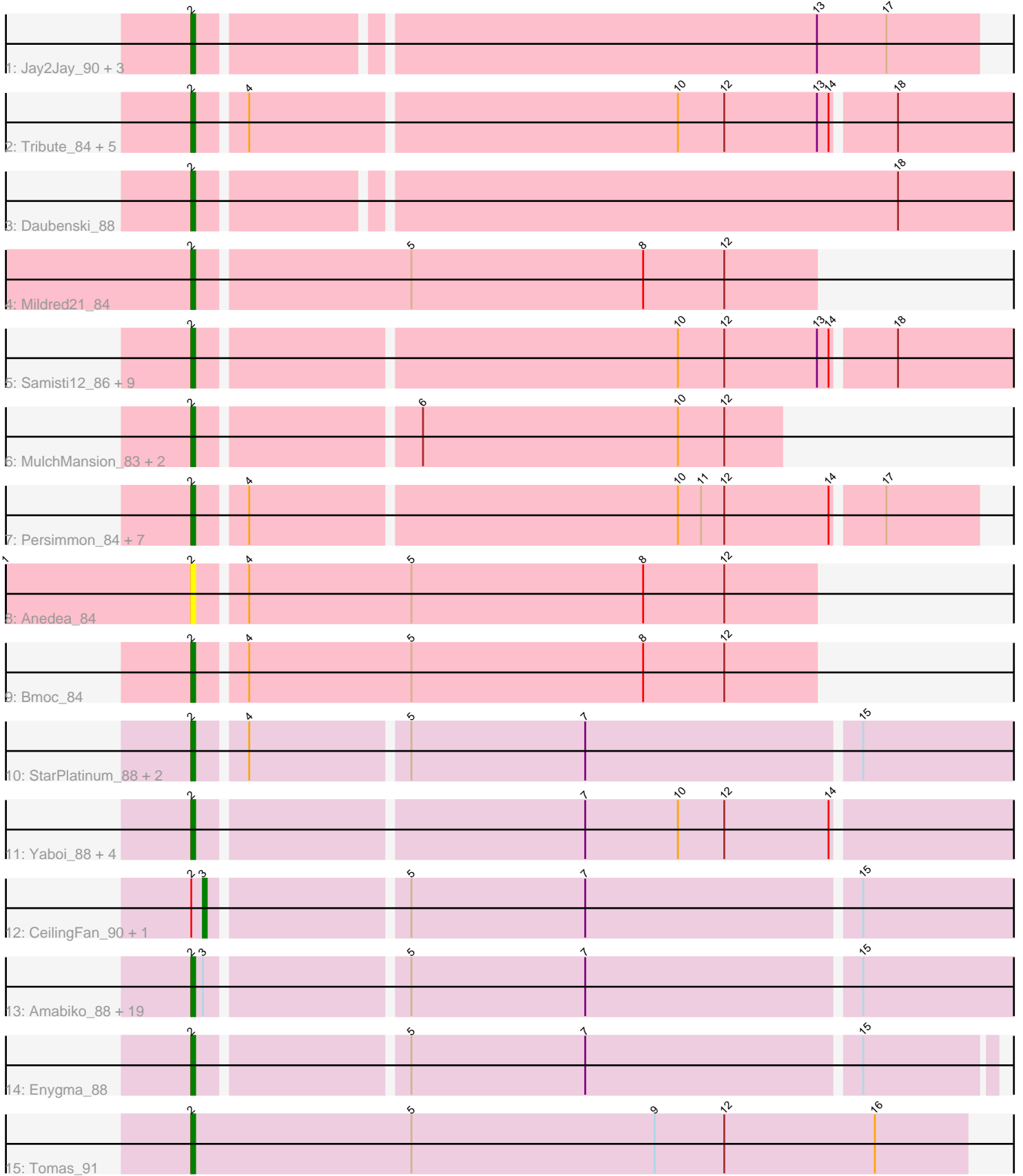


Pham 156364



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 156364 Report

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

Pham number 156364 has 67 members, 12 are drafts.

Phages represented in each track:

- Track 1 : Jay2Jay_90, Targaryen_86, Warpy_89, Evy_86
- Track 2 : Tribute_84, Peebs_85, Pepperwood_86, EGole_87, Sushi23_85, Larnav_92
- Track 3 : Daubenski_88
- Track 4 : Mildred21_84
- Track 5 : Samisti12_86, Lululemon_87, Cross_86, HangryHippo_88, Teutsch_86, Cursive_84, PacManQ_87, Watermoore_86, BlueOtter_88, Leo04_87
- Track 6 : MulchMansion_83, LilMartin_83, Angela_83
- Track 7 : Persimmon_84, NootNoot_81, Bartholomune_84, Braelyn_86, Squillium_85, PinkiePie_84, Paradiddles_81, Liandry_84
- Track 8 : Anedea_84
- Track 9 : Bmoc_84
- Track 10 : StarPlatinum_88, LukeCage_87, Mugiwara_89
- Track 11 : Yaboi_88, Genie2_88, BoomerJR_88, Stanimal_88, Sollertia_88
- Track 12 : CeilingFan_90, SaltySpitoon_87
- Track 13 : Amabiko_88, Gibbi_92, Elmer_96, JimJam_88, MindFlayer_85, Karimac_87, Starbow_86, PumpkinSpice_87, IchabodCrane_85, Spelly_88, Bordeaux_86, KentuckyRacer_91, Quarant19_87, Battuta_86, Wipeout_85, Jollison_92, Birchlyn_85, Spilled_89, TomSawyer_86, Wofford_87
- Track 14 : Enygma_88
- Track 15 : Tomas_91

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 55 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amabiko_88, Anedea_84, Angela_83, Bartholomune_84, Battuta_86, Birchlyn_85, BlueOtter_88, Bmoc_84, BoomerJR_88, Bordeaux_86, Braelyn_86, Cross_86, Cursive_84, Daubenski_88, EGole_87, Elmer_96, Enygma_88, Evy_86, Genie2_88, Gibbi_92, HangryHippo_88, IchabodCrane_85, Jay2Jay_90, JimJam_88, Jollison_92, Karimac_87, KentuckyRacer_91, Larnav_92, Leo04_87, Liandry_84, LilMartin_83, LukeCage_87, Lululemon_87, Mildred21_84, MindFlayer_85, Mugiwara_89,

MulchMansion_83, NootNoot_81, PacManQ_87, Paradiddles_81, Peebs_85, Pepperwood_86, Persimmon_84, PinkiePie_84, PumpkinSpice_87, Quaran19_87, Samisti12_86, Sollertia_88, Spelly_88, Spilled_89, Squillium_85, Stanimal_88, StarPlatinum_88, Starbow_86, Sushi23_85, Targaryen_86, Teutsch_86, TomSawyer_86, Tomas_91, Tribute_84, Warpy_89, Watermoore_86, Wipeout_85, Wofford_87, Yaboi_88,

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

- CeilingFan_90, SaltySpittoon_87,

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

-

Summary by start number:

Start 2:

- Found in 67 of 67 (100.0%) of genes in pham
- Manual Annotations of this start: 54 of 55
- Called 97.0% of time when present
- Phage (with cluster) where this start called: Amabiko_88 (BE2), Anedea_84 (BE1), Angela_83 (BE1), Bartholomune_84 (BE1), Battuta_86 (BE2), Birchlyn_85 (BE2), BlueOtter_88 (BE1), Bmoc_84 (BE1), BoomerJR_88 (BE2), Bordeaux_86 (BE2), Braelyn_86 (BE1), Cross_86 (BE1), Cursive_84 (BE1), Daubenski_88 (BE1), EGole_87 (BE1), Elmer_96 (BE2), Enygma_88 (BE2), Evy_86 (BE1), Genie2_88 (BE2), Gibbi_92 (BE2), HangryHippo_88 (BE1), IchabodCrane_85 (BE2), Jay2Jay_90 (BE1), JimJam_88 (BE2), Jollison_92 (BE2), Karimac_87 (BE2), KentuckyRacer_91 (BE2), Larnav_92 (BE1), Leo04_87 (BE1), Liandry_84 (BE1), LilMartin_83 (BE1), LukeCage_87 (BE2), Lululemon_87 (BE1), Mildred21_84 (BE1), MindFlayer_85 (BE2), Mugiwara_89 (BE2), MulchMansion_83 (BE1), NootNoot_81 (BE1), PacManQ_87 (BE1), Paradiddles_81 (BE1), Peebs_85 (BE1), Pepperwood_86 (BE1), Persimmon_84 (BE1), PinkiePie_84 (BE1), PumpkinSpice_87 (BE2), Quaran19_87 (BE2), Samisti12_86 (BE1), Sollertia_88 (BE2), Spelly_88 (BE2), Spilled_89 (BE2), Squillium_85 (BE1), Stanimal_88 (BE2), StarPlatinum_88 (BE2), Starbow_86 (BE2), Sushi23_85 (BE1), Targaryen_86 (BE1), Teutsch_86 (BE1), TomSawyer_86 (BE2), Tomas_91 (BE2), Tribute_84 (BE1), Warpy_89 (BE1), Watermoore_86 (BE1), Wipeout_85 (BE2), Wofford_87 (BE2), Yaboi_88 (BE2),

Start 3:

- Found in 22 of 67 (32.8%) of genes in pham
- Manual Annotations of this start: 1 of 55
- Called 9.1% of time when present
- Phage (with cluster) where this start called: CeilingFan_90 (BE2), SaltySpittoon_87 (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 29 times for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 2 was manually annotated 25 times for cluster BE2.
- Start number 3 was manually annotated 1 time for cluster BE2.

Gene Information:

Gene: Amabiko_88 Start: 63980, Stop: 64192, Start Num: 2

Candidate Starts for Amabiko_88:

(Start: 2 @63980 has 54 MA's), (Start: 3 @63983 has 1 MA's), (5, 64031), (7, 64076), (15, 64145),

Gene: Anedea_84 Start: 63484, Stop: 63642, Start Num: 2

Candidate Starts for Anedea_84:

(1, 63436), (Start: 2 @63484 has 54 MA's), (4, 63496), (5, 63538), (8, 63598), (12, 63619),

Gene: Angela_83 Start: 62975, Stop: 63121, Start Num: 2

Candidate Starts for Angela_83:

(Start: 2 @62975 has 54 MA's), (6, 63029), (10, 63095), (12, 63107),

Gene: Bartholomune_84 Start: 63348, Stop: 63542, Start Num: 2

Candidate Starts for Bartholomune_84:

(Start: 2 @63348 has 54 MA's), (4, 63360), (10, 63468), (11, 63474), (12, 63480), (14, 63507), (17, 63519),

Gene: Battuta_86 Start: 63954, Stop: 64166, Start Num: 2

Candidate Starts for Battuta_86:

(Start: 2 @63954 has 54 MA's), (Start: 3 @63957 has 1 MA's), (5, 64005), (7, 64050), (15, 64119),

Gene: Birchlyn_85 Start: 61837, Stop: 62049, Start Num: 2

Candidate Starts for Birchlyn_85:

(Start: 2 @61837 has 54 MA's), (Start: 3 @61840 has 1 MA's), (5, 61888), (7, 61933), (15, 62002),

Gene: BlueOtter_88 Start: 64692, Stop: 64901, Start Num: 2

Candidate Starts for BlueOtter_88:

(Start: 2 @64692 has 54 MA's), (10, 64812), (12, 64824), (13, 64848), (14, 64851), (18, 64866),

Gene: Bmoc_84 Start: 63322, Stop: 63480, Start Num: 2

Candidate Starts for Bmoc_84:

(Start: 2 @63322 has 54 MA's), (4, 63334), (5, 63376), (8, 63436), (12, 63457),

Gene: BoomerJR_88 Start: 63816, Stop: 64028, Start Num: 2

Candidate Starts for BoomerJR_88:

(Start: 2 @63816 has 54 MA's), (7, 63912), (10, 63936), (12, 63948), (14, 63975),

Gene: Bordeaux_86 Start: 64109, Stop: 64321, Start Num: 2

Candidate Starts for Bordeaux_86:

(Start: 2 @64109 has 54 MA's), (Start: 3 @64112 has 1 MA's), (5, 64160), (7, 64205), (15, 64274),

Gene: Braelyn_86 Start: 64112, Stop: 64306, Start Num: 2

Candidate Starts for Braelyn_86:

(Start: 2 @64112 has 54 MA's), (4, 64124), (10, 64232), (11, 64238), (12, 64244), (14, 64271), (17, 64283),

Gene: CeilingFan_90 Start: 63872, Stop: 64081, Start Num: 3
Candidate Starts for CeilingFan_90:
(Start: 2 @63869 has 54 MA's), (Start: 3 @63872 has 1 MA's), (5, 63920), (7, 63965), (15, 64034),

Gene: Cross_86 Start: 64693, Stop: 64902, Start Num: 2
Candidate Starts for Cross_86:
(Start: 2 @64693 has 54 MA's), (10, 64813), (12, 64825), (13, 64849), (14, 64852), (18, 64867),

Gene: Cursive_84 Start: 64218, Stop: 64427, Start Num: 2
Candidate Starts for Cursive_84:
(Start: 2 @64218 has 54 MA's), (10, 64338), (12, 64350), (13, 64374), (14, 64377), (18, 64392),

Gene: Daubenski_88 Start: 64408, Stop: 64617, Start Num: 2
Candidate Starts for Daubenski_88:
(Start: 2 @64408 has 54 MA's), (18, 64582),

Gene: EGole_87 Start: 65638, Stop: 65847, Start Num: 2
Candidate Starts for EGole_87:
(Start: 2 @65638 has 54 MA's), (4, 65650), (10, 65758), (12, 65770), (13, 65794), (14, 65797), (18, 65812),

Gene: Elmer_96 Start: 65056, Stop: 65268, Start Num: 2
Candidate Starts for Elmer_96:
(Start: 2 @65056 has 54 MA's), (Start: 3 @65059 has 1 MA's), (5, 65107), (7, 65152), (15, 65221),

Gene: Enygma_88 Start: 65756, Stop: 65953, Start Num: 2
Candidate Starts for Enygma_88:
(Start: 2 @65756 has 54 MA's), (5, 65807), (7, 65852), (15, 65921),

Gene: Evy_86 Start: 64593, Stop: 64787, Start Num: 2
Candidate Starts for Evy_86:
(Start: 2 @64593 has 54 MA's), (13, 64746), (17, 64764),

Gene: Genie2_88 Start: 63930, Stop: 64142, Start Num: 2
Candidate Starts for Genie2_88:
(Start: 2 @63930 has 54 MA's), (7, 64026), (10, 64050), (12, 64062), (14, 64089),

Gene: Gibbi_92 Start: 64092, Stop: 64304, Start Num: 2
Candidate Starts for Gibbi_92:
(Start: 2 @64092 has 54 MA's), (Start: 3 @64095 has 1 MA's), (5, 64143), (7, 64188), (15, 64257),

Gene: HangryHippo_88 Start: 64692, Stop: 64901, Start Num: 2
Candidate Starts for HangryHippo_88:
(Start: 2 @64692 has 54 MA's), (10, 64812), (12, 64824), (13, 64848), (14, 64851), (18, 64866),

Gene: IchabodCrane_85 Start: 63681, Stop: 63893, Start Num: 2
Candidate Starts for IchabodCrane_85:
(Start: 2 @63681 has 54 MA's), (Start: 3 @63684 has 1 MA's), (5, 63732), (7, 63777), (15, 63846),

Gene: Jay2Jay_90 Start: 65445, Stop: 65639, Start Num: 2
Candidate Starts for Jay2Jay_90:
(Start: 2 @65445 has 54 MA's), (13, 65598), (17, 65616),

Gene: JimJam_88 Start: 64055, Stop: 64267, Start Num: 2
Candidate Starts for JimJam_88:
(Start: 2 @64055 has 54 MA's), (Start: 3 @64058 has 1 MA's), (5, 64106), (7, 64151), (15, 64220),

Gene: Jollison_92 Start: 63937, Stop: 64149, Start Num: 2
Candidate Starts for Jollison_92:
(Start: 2 @63937 has 54 MA's), (Start: 3 @63940 has 1 MA's), (5, 63988), (7, 64033), (15, 64102),

Gene: Karimac_87 Start: 64086, Stop: 64298, Start Num: 2
Candidate Starts for Karimac_87:
(Start: 2 @64086 has 54 MA's), (Start: 3 @64089 has 1 MA's), (5, 64137), (7, 64182), (15, 64251),

Gene: KentuckyRacer_91 Start: 63870, Stop: 64082, Start Num: 2
Candidate Starts for KentuckyRacer_91:
(Start: 2 @63870 has 54 MA's), (Start: 3 @63873 has 1 MA's), (5, 63921), (7, 63966), (15, 64035),

Gene: Larnav_92 Start: 64677, Stop: 64886, Start Num: 2
Candidate Starts for Larnav_92:
(Start: 2 @64677 has 54 MA's), (4, 64689), (10, 64797), (12, 64809), (13, 64833), (14, 64836), (18, 64851),

Gene: Leo04_87 Start: 65192, Stop: 65401, Start Num: 2
Candidate Starts for Leo04_87:
(Start: 2 @65192 has 54 MA's), (10, 65312), (12, 65324), (13, 65348), (14, 65351), (18, 65366),

Gene: Liandry_84 Start: 64097, Stop: 64291, Start Num: 2
Candidate Starts for Liandry_84:
(Start: 2 @64097 has 54 MA's), (4, 64109), (10, 64217), (11, 64223), (12, 64229), (14, 64256), (17, 64268),

Gene: LilMartin_83 Start: 62923, Stop: 63069, Start Num: 2
Candidate Starts for LilMartin_83:
(Start: 2 @62923 has 54 MA's), (6, 62977), (10, 63043), (12, 63055),

Gene: LukeCage_87 Start: 63843, Stop: 64055, Start Num: 2
Candidate Starts for LukeCage_87:
(Start: 2 @63843 has 54 MA's), (4, 63855), (5, 63894), (7, 63939), (15, 64008),

Gene: Lululemon_87 Start: 64073, Stop: 64282, Start Num: 2
Candidate Starts for Lululemon_87:
(Start: 2 @64073 has 54 MA's), (10, 64193), (12, 64205), (13, 64229), (14, 64232), (18, 64247),

Gene: Mildred21_84 Start: 63128, Stop: 63286, Start Num: 2
Candidate Starts for Mildred21_84:
(Start: 2 @63128 has 54 MA's), (5, 63182), (8, 63242), (12, 63263),

Gene: MindFlayer_85 Start: 63588, Stop: 63800, Start Num: 2
Candidate Starts for MindFlayer_85:
(Start: 2 @63588 has 54 MA's), (Start: 3 @63591 has 1 MA's), (5, 63639), (7, 63684), (15, 63753),

Gene: Mugiwara_89 Start: 64342, Stop: 64554, Start Num: 2
Candidate Starts for Mugiwara_89:
(Start: 2 @64342 has 54 MA's), (4, 64354), (5, 64393), (7, 64438), (15, 64507),

Gene: MulchMansion_83 Start: 62923, Stop: 63069, Start Num: 2
Candidate Starts for MulchMansion_83:
(Start: 2 @62923 has 54 MA's), (6, 62977), (10, 63043), (12, 63055),

Gene: NootNoot_81 Start: 63011, Stop: 63205, Start Num: 2
Candidate Starts for NootNoot_81:
(Start: 2 @63011 has 54 MA's), (4, 63023), (10, 63131), (11, 63137), (12, 63143), (14, 63170), (17, 63182),

Gene: PacManQ_87 Start: 64073, Stop: 64282, Start Num: 2
Candidate Starts for PacManQ_87:
(Start: 2 @64073 has 54 MA's), (10, 64193), (12, 64205), (13, 64229), (14, 64232), (18, 64247),

Gene: Paradiddles_81 Start: 63275, Stop: 63469, Start Num: 2
Candidate Starts for Paradiddles_81:
(Start: 2 @63275 has 54 MA's), (4, 63287), (10, 63395), (11, 63401), (12, 63407), (14, 63434), (17, 63446),

Gene: Peebs_85 Start: 64427, Stop: 64636, Start Num: 2
Candidate Starts for Peebs_85:
(Start: 2 @64427 has 54 MA's), (4, 64439), (10, 64547), (12, 64559), (13, 64583), (14, 64586), (18, 64601),

Gene: Pepperwood_86 Start: 64560, Stop: 64769, Start Num: 2
Candidate Starts for Pepperwood_86:
(Start: 2 @64560 has 54 MA's), (4, 64572), (10, 64680), (12, 64692), (13, 64716), (14, 64719), (18, 64734),

Gene: Persimmon_84 Start: 62944, Stop: 63138, Start Num: 2
Candidate Starts for Persimmon_84:
(Start: 2 @62944 has 54 MA's), (4, 62956), (10, 63064), (11, 63070), (12, 63076), (14, 63103), (17, 63115),

Gene: PinkiePie_84 Start: 64097, Stop: 64291, Start Num: 2
Candidate Starts for PinkiePie_84:
(Start: 2 @64097 has 54 MA's), (4, 64109), (10, 64217), (11, 64223), (12, 64229), (14, 64256), (17, 64268),

Gene: PumpkinSpice_87 Start: 63980, Stop: 64192, Start Num: 2
Candidate Starts for PumpkinSpice_87:
(Start: 2 @63980 has 54 MA's), (Start: 3 @63983 has 1 MA's), (5, 64031), (7, 64076), (15, 64145),

Gene: Quaran19_87 Start: 63971, Stop: 64183, Start Num: 2
Candidate Starts for Quaran19_87:
(Start: 2 @63971 has 54 MA's), (Start: 3 @63974 has 1 MA's), (5, 64022), (7, 64067), (15, 64136),

Gene: SaltySpittoon_87 Start: 63983, Stop: 64192, Start Num: 3
Candidate Starts for SaltySpittoon_87:
(Start: 2 @63980 has 54 MA's), (Start: 3 @63983 has 1 MA's), (5, 64031), (7, 64076), (15, 64145),

Gene: Samisti12_86 Start: 65869, Stop: 66078, Start Num: 2
Candidate Starts for Samisti12_86:

(Start: 2 @65869 has 54 MA's), (10, 65989), (12, 66001), (13, 66025), (14, 66028), (18, 66043),

Gene: Sollertia_88 Start: 63930, Stop: 64142, Start Num: 2

Candidate Starts for Sollertia_88:

(Start: 2 @63930 has 54 MA's), (7, 64026), (10, 64050), (12, 64062), (14, 64089),

Gene: Spelly_88 Start: 63935, Stop: 64147, Start Num: 2

Candidate Starts for Spelly_88:

(Start: 2 @63935 has 54 MA's), (Start: 3 @63938 has 1 MA's), (5, 63986), (7, 64031), (15, 64100),

Gene: Spilled_89 Start: 64052, Stop: 64264, Start Num: 2

Candidate Starts for Spilled_89:

(Start: 2 @64052 has 54 MA's), (Start: 3 @64055 has 1 MA's), (5, 64103), (7, 64148), (15, 64217),

Gene: Squillium_85 Start: 64098, Stop: 64292, Start Num: 2

Candidate Starts for Squillium_85:

(Start: 2 @64098 has 54 MA's), (4, 64110), (10, 64218), (11, 64224), (12, 64230), (14, 64257), (17, 64269),

Gene: Stanimal_88 Start: 63819, Stop: 64031, Start Num: 2

Candidate Starts for Stanimal_88:

(Start: 2 @63819 has 54 MA's), (7, 63915), (10, 63939), (12, 63951), (14, 63978),

Gene: StarPlatinum_88 Start: 64488, Stop: 64700, Start Num: 2

Candidate Starts for StarPlatinum_88:

(Start: 2 @64488 has 54 MA's), (4, 64500), (5, 64539), (7, 64584), (15, 64653),

Gene: Starbow_86 Start: 63956, Stop: 64168, Start Num: 2

Candidate Starts for Starbow_86:

(Start: 2 @63956 has 54 MA's), (Start: 3 @63959 has 1 MA's), (5, 64007), (7, 64052), (15, 64121),

Gene: Sushi23_85 Start: 64785, Stop: 64994, Start Num: 2

Candidate Starts for Sushi23_85:

(Start: 2 @64785 has 54 MA's), (4, 64797), (10, 64905), (12, 64917), (13, 64941), (14, 64944), (18, 64959),

Gene: Targaryen_86 Start: 65495, Stop: 65689, Start Num: 2

Candidate Starts for Targaryen_86:

(Start: 2 @65495 has 54 MA's), (13, 65648), (17, 65666),

Gene: Teutsch_86 Start: 65048, Stop: 65257, Start Num: 2

Candidate Starts for Teutsch_86:

(Start: 2 @65048 has 54 MA's), (10, 65168), (12, 65180), (13, 65204), (14, 65207), (18, 65222),

Gene: TomSawyer_86 Start: 63571, Stop: 63783, Start Num: 2

Candidate Starts for TomSawyer_86:

(Start: 2 @63571 has 54 MA's), (Start: 3 @63574 has 1 MA's), (5, 63622), (7, 63667), (15, 63736),

Gene: Tomas_91 Start: 66894, Stop: 67094, Start Num: 2

Candidate Starts for Tomas_91:

(Start: 2 @66894 has 54 MA's), (5, 66951), (9, 67014), (12, 67032), (16, 67071),

Gene: Tribute_84 Start: 64254, Stop: 64463, Start Num: 2

Candidate Starts for Tribute_84:

(Start: 2 @64254 has 54 MA's), (4, 64266), (10, 64374), (12, 64386), (13, 64410), (14, 64413), (18, 64428),

Gene: Warpy_89 Start: 64958, Stop: 65152, Start Num: 2

Candidate Starts for Warpy_89:

(Start: 2 @64958 has 54 MA's), (13, 65111), (17, 65129),

Gene: Watermoore_86 Start: 65264, Stop: 65473, Start Num: 2

Candidate Starts for Watermoore_86:

(Start: 2 @65264 has 54 MA's), (10, 65384), (12, 65396), (13, 65420), (14, 65423), (18, 65438),

Gene: Wipeout_85 Start: 64322, Stop: 64534, Start Num: 2

Candidate Starts for Wipeout_85:

(Start: 2 @64322 has 54 MA's), (Start: 3 @64325 has 1 MA's), (5, 64373), (7, 64418), (15, 64487),

Gene: Wofford_87 Start: 65019, Stop: 65231, Start Num: 2

Candidate Starts for Wofford_87:

(Start: 2 @65019 has 54 MA's), (Start: 3 @65022 has 1 MA's), (5, 65070), (7, 65115), (15, 65184),

Gene: Yaboi_88 Start: 63907, Stop: 64119, Start Num: 2

Candidate Starts for Yaboi_88:

(Start: 2 @63907 has 54 MA's), (7, 64003), (10, 64027), (12, 64039), (14, 64066),