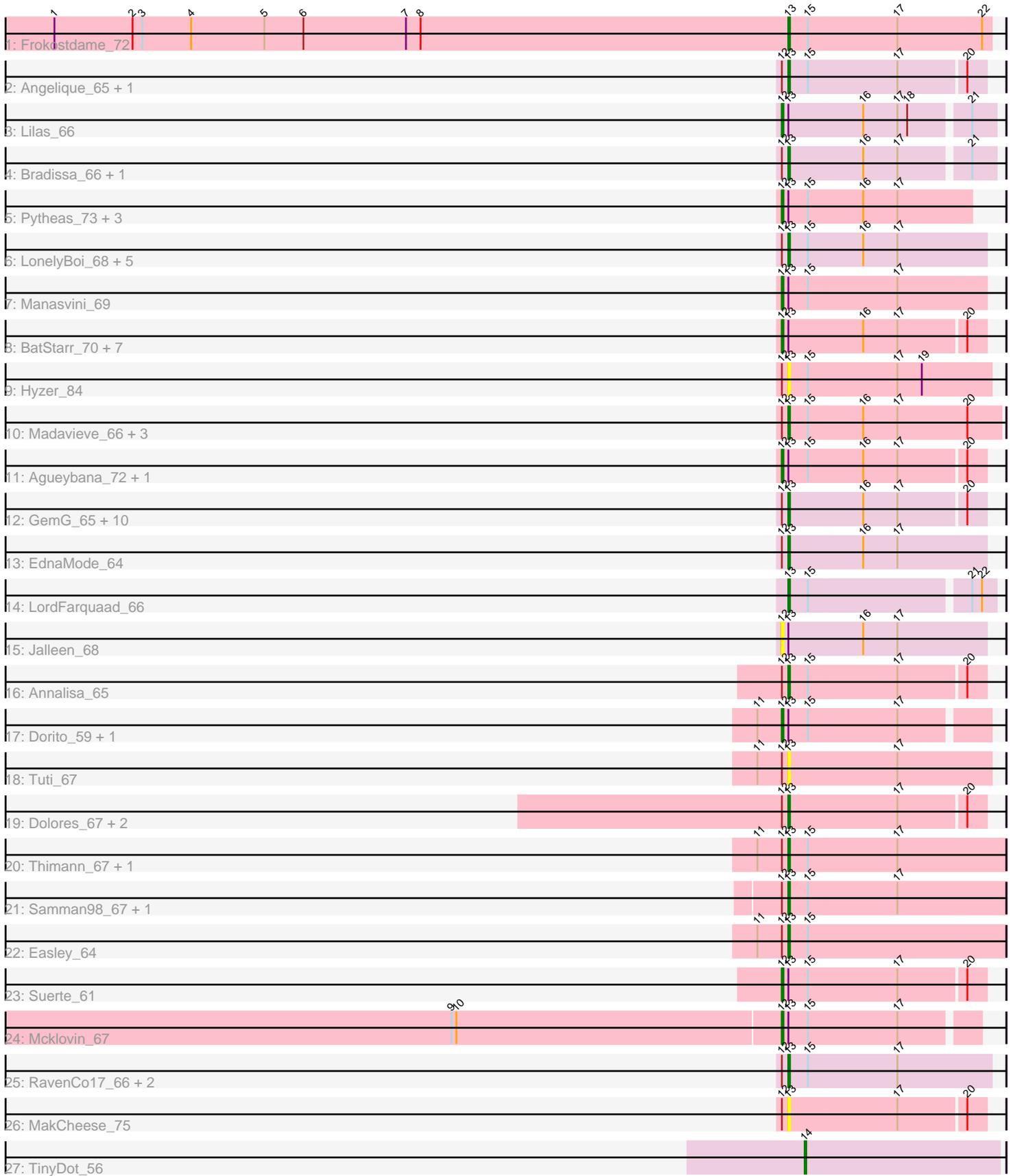# Pham 291155

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 291155 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291155 has 65 members, 8 are drafts.

Phages represented in each track:
• Track 1 : Frokostdame_72
• Track 2 : Angelique_65, FroggyToad_65
• Track 3 : Lilas_66
• Track 4 : Bradissa_66, EnalisNailo_65
• Track 5 : Pytheas_73, JCole_62, Yeezy_72, Pollux_73
• Track 6 : LonelyBoi_68, AlumE_69, Floral_71, Ohgeesy_69, Nettuno_62, BoyNamedSue_69
• Track 7 : Manasvini_69
• Track 8 : BatStarr_70, Bjanes7_62, Mocha12_65, Savage_65, Herod_71, Sproutie_65, Cynthia_65, Hugley_69
• Track 9 : Hyzer_84
• Track 10 : Madavieve_66, EMsquaredA_70, Bunnybear_65, Maridalia_70
• Track 11 : Agueybana_72, Marteena_69
• Track 12 : GemG_65, TuertoX_65, Gizermo_65, PantheRoc_73, TimTam_71, Eviarto_71, Whiteclaw_65, Nymphadora_71, Haley23_65, Lamberg_61, Clap_65
• Track 13 : EdnaMode_64
• Track 14 : LordFarquaad_66
• Track 15 : Jalleen_68
• Track 16 : Annalisa_65
• Track 17 : Dorito_59, DobbysSock_61
• Track 18 : Tuti_67
• Track 19 : Dolores_67, WinkNick_67, Sekhmet_66
• Track 20 : Thimann_67, Oregano_67
• Track 21 : Samman98_67, Invectra_69
• Track 22 : Easley_64
• Track 23 : Suerte_61
• Track 24 : Mcklovin_67
• Track 25 : RavenCo17_66, WelcomeAyanna_70, ThankyouJordi_70
• Track 26 : MakCheese_75
• Track 27 : TinyDot_56

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

The start number called the most often in the published annotations is 13, it was called in 38 of the 57 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AlumE_69, Angelique_65, Annalisa_65, BoyNamedSue_69, Bradissa_66, Bunnybear_65, Clap_65, Dolores_67, EMsquaredA_70, Easley_64, EdnaMode_64, EnalisNailo_65, Eviarto_71, Floral_71, FroggyToad_65, Frokostdame_72, GemG_65, Gizermo_65, Haley23_65, Hyzer_84, Invectra_69, Lamberg_61, LonelyBoi_68, LordFarquaad_66, Madavieve_66, MakCheese_75, Maridalia_70, Nettuno_62, Nymphadora_71, Ohgeesy_69, Oregano_67, PantheRoc_73, RavenCo17_66, Samman98_67, Sekhmet_66, ThankyouJordi_70, Thimann_67, TimTam_71, TuertoX_65, Tuti_67, WelcomeAyanna_70, Whiteclaw_65, WinkNick_67,

Genes that have the "Most Annotated" start but do not call it:
• Agueybana_72, BatStarr_70, Bjanes7_62, Cynthia_65, DobbysSock_61, Dorito_59, Herod_71, Hugley_69, JCole_62, Jalleen_68, Lilas_66, Manasvini_69, Marteena_69, Mcklovin_67, Mocha12_65, Pollux_73, Pytheas_73, Savage_65, Sproutie_65, Suerte_61, Yeezy_72,

Genes that do not have the "Most Annotated" start:
• TinyDot_56,

Summary by start number:

Start 12:
• Found in 62 of 65 (95.4%) of genes in pham
• Manual Annotations of this start: 18 of 57
• Called 33.9% of time when present
• Phage (with cluster) where this start called: Agueybana_72 (CZ1), BatStarr_70 (CZ1), Bjanes7_62 (CZ2), Cynthia_65 (CZ2), DobbysSock_61 (CZ4), Dorito_59 (CZ4), Herod_71 (CZ1), Hugley_69 (CZ1), JCole_62 (CZ2), Jalleen_68 (CZ2), Lilas_66 (CY1), Manasvini_69 (CZ1), Marteena_69 (CY1), Mcklovin_67 (CZ4), Mocha12_65 (CZ2), Pollux_73 (CY1), Pytheas_73 (CY3), Savage_65 (CZ2), Sproutie_65 (CZ2), Suerte_61 (CZ4), Yeezy_72 (CZ3),

Start 13:
• Found in 64 of 65 (98.5%) of genes in pham
• Manual Annotations of this start: 38 of 57
• Called 67.2% of time when present
• Phage (with cluster) where this start called: AlumE_69 (CZ1), Angelique_65 (CY1), Annalisa_65 (CZ4), BoyNamedSue_69 (CZ1), Bradissa_66 (CY1), Bunnybear_65 (CZ), Clap_65 (CZ2), Dolores_67 (CZ4), EMsquaredA_70 (CY1), Easley_64 (CZ4), EdnaMode_64 (CZ2), EnalisNailo_65 (CY1), Eviarto_71 (CZ1), Floral_71 (CY1), FroggyToad_65 (CZ2), Frokostdame_72 (CV), GemG_65 (CZ2), Gizermo_65 (CZ2), Haley23_65 (CZ2), Hyzer_84 (CZ1), Invectra_69 (CZ4), Lamberg_61 (CZ2), LonelyBoi_68 (CY7), LordFarquaad_66 (CZ2), Madavieve_66 (CZ1), MakCheese_75 (DW), Maridalia_70 (CZ1), Nettuno_62 (CZ2), Nymphadora_71 (CZ1), Ohgeesy_69 (CZ), Oregano_67 (CZ4), PantheRoc_73 (CZ3), RavenCo17_66 (CZ8), Samman98_67 (CZ4), Sekhmet_66 (CZ4), ThankyouJordi_70 (CZ1), Thimann_67 (CZ4), TimTam_71 (CZ1), TuertoX_65 (CZ2), Tuti_67 (CZ4), WelcomeAyanna_70 (CZ1), Whiteclaw_65 (CZ2), WinkNick_67 (CZ4),

Start 14:

• Found in 1 of 65 (1.5%) of genes in pham
• Manual Annotations of this start: 1 of 57
• Called 100.0% of time when present
• Phage (with cluster) where this start called: TinyDot_56 (singleton),

Summary by clusters:

There are 12 clusters represented in this pham: CY3, singleton, CY7, CZ2, CZ3, CZ1, CY1, CZ4, CZ, CZ8, DW, CV,

Info for manual annotations of cluster CV:
•Start number 13 was manually annotated 1 time for cluster CV.

Info for manual annotations of cluster CY1:
•Start number 12 was manually annotated 3 times for cluster CY1.
•Start number 13 was manually annotated 5 times for cluster CY1.

Info for manual annotations of cluster CY3:
•Start number 12 was manually annotated 1 time for cluster CY3.

Info for manual annotations of cluster CY7:
•Start number 13 was manually annotated 1 time for cluster CY7.

Info for manual annotations of cluster CZ:
•Start number 13 was manually annotated 2 times for cluster CZ.

Info for manual annotations of cluster CZ1:
•Start number 12 was manually annotated 4 times for cluster CZ1.
•Start number 13 was manually annotated 8 times for cluster CZ1.

Info for manual annotations of cluster CZ2:
•Start number 12 was manually annotated 5 times for cluster CZ2.
•Start number 13 was manually annotated 10 times for cluster CZ2.

Info for manual annotations of cluster CZ3:
•Start number 12 was manually annotated 1 time for cluster CZ3.
•Start number 13 was manually annotated 1 time for cluster CZ3.

Info for manual annotations of cluster CZ4:
•Start number 12 was manually annotated 4 times for cluster CZ4.
•Start number 13 was manually annotated 9 times for cluster CZ4.

Info for manual annotations of cluster CZ8:
•Start number 13 was manually annotated 1 time for cluster CZ8.

Gene Information:
Gene: Agueybana_72 Start: 47382, Stop: 47501, Start Num: 12
Candidate Starts for Agueybana_72:

(Start: 12 @47382 has 18 MA's), (Start: 13 @47385 has 38 MA's), (15, 47397), (16, 47430), (17, 47451), (20, 47490),

Gene: AlumE_69 Start: 47241, Stop: 47360, Start Num: 13
Candidate Starts for AlumE_69:
(Start: 12 @47238 has 18 MA's), (Start: 13 @47241 has 38 MA's), (15, 47253), (16, 47286), (17, 47307),

Gene: Angelique_65 Start: 45702, Stop: 45818, Start Num: 13
Candidate Starts for Angelique_65:
(Start: 12 @45699 has 18 MA's), (Start: 13 @45702 has 38 MA's), (15, 45714), (17, 45768), (20, 45807),

Gene: Annalisa_65 Start: 42496, Stop: 42612, Start Num: 13
Candidate Starts for Annalisa_65:
(Start: 12 @42493 has 18 MA's), (Start: 13 @42496 has 38 MA's), (15, 42508), (17, 42562), (20, 42601),

Gene: BatStarr_70 Start: 47786, Stop: 47905, Start Num: 12
Candidate Starts for BatStarr_70:
(Start: 12 @47786 has 18 MA's), (Start: 13 @47789 has 38 MA's), (16, 47834), (17, 47855), (20, 47894),

Gene: Bjanes7_62 Start: 41166, Stop: 41285, Start Num: 12
Candidate Starts for Bjanes7_62:
(Start: 12 @41166 has 18 MA's), (Start: 13 @41169 has 38 MA's), (16, 41214), (17, 41235), (20, 41274),

Gene: BoyNamedSue_69 Start: 47241, Stop: 47360, Start Num: 13
Candidate Starts for BoyNamedSue_69:
(Start: 12 @47238 has 18 MA's), (Start: 13 @47241 has 38 MA's), (15, 47253), (16, 47286), (17, 47307),

Gene: Bradissa_66 Start: 46799, Stop: 46918, Start Num: 13
Candidate Starts for Bradissa_66:
(Start: 12 @46796 has 18 MA's), (Start: 13 @46799 has 38 MA's), (16, 46844), (17, 46865), (21, 46904),

Gene: Bunnybear_65 Start: 46124, Stop: 46252, Start Num: 13
Candidate Starts for Bunnybear_65:
(Start: 12 @46121 has 18 MA's), (Start: 13 @46124 has 38 MA's), (15, 46136), (16, 46169), (17, 46190), (20, 46232),

Gene: Clap_65 Start: 41348, Stop: 41464, Start Num: 13
Candidate Starts for Clap_65:
(Start: 12 @41345 has 18 MA's), (Start: 13 @41348 has 38 MA's), (16, 41393), (17, 41414), (20, 41453),

Gene: Cynthia_65 Start: 41343, Stop: 41462, Start Num: 12
Candidate Starts for Cynthia_65:
(Start: 12 @41343 has 18 MA's), (Start: 13 @41346 has 38 MA's), (16, 41391), (17, 41412), (20, 41451),

Gene: DobbysSock_61 Start: 41736, Stop: 41855, Start Num: 12
Candidate Starts for DobbysSock_61:
(11, 41721), (Start: 12 @41736 has 18 MA's), (Start: 13 @41739 has 38 MA's), (15, 41751), (17, 41805),

Gene: Dolores_67 Start: 42031, Stop: 42147, Start Num: 13
Candidate Starts for Dolores_67:
(Start: 12 @42028 has 18 MA's), (Start: 13 @42031 has 38 MA's), (17, 42097), (20, 42136),

Gene: Dorito_59 Start: 39603, Stop: 39722, Start Num: 12
Candidate Starts for Dorito_59:
(11, 39588), (Start: 12 @39603 has 18 MA's), (Start: 13 @39606 has 38 MA's), (15, 39618), (17, 39672),

Gene: EMsquaredA_70 Start: 46270, Stop: 46386, Start Num: 13
Candidate Starts for EMsquaredA_70:
(Start: 12 @46267 has 18 MA's), (Start: 13 @46270 has 38 MA's), (15, 46282), (16, 46315), (17, 46336), (20, 46375),

Gene: Easley_64 Start: 41494, Stop: 41625, Start Num: 13
Candidate Starts for Easley_64:
(11, 41476), (Start: 12 @41491 has 18 MA's), (Start: 13 @41494 has 38 MA's), (15, 41506),

Gene: EdnaMode_64 Start: 41387, Stop: 41506, Start Num: 13
Candidate Starts for EdnaMode_64:
(Start: 12 @41384 has 18 MA's), (Start: 13 @41387 has 38 MA's), (16, 41432), (17, 41453),

Gene: EnalisNailo_65 Start: 46333, Stop: 46452, Start Num: 13
Candidate Starts for EnalisNailo_65:
(Start: 12 @46330 has 18 MA's), (Start: 13 @46333 has 38 MA's), (16, 46378), (17, 46399), (21, 46438),

Gene: Eviarto_71 Start: 47764, Stop: 47880, Start Num: 13
Candidate Starts for Eviarto_71:
(Start: 12 @47761 has 18 MA's), (Start: 13 @47764 has 38 MA's), (16, 47809), (17, 47830), (20, 47869),

Gene: Floral_71 Start: 48158, Stop: 48277, Start Num: 13
Candidate Starts for Floral_71:
(Start: 12 @48155 has 18 MA's), (Start: 13 @48158 has 38 MA's), (15, 48170), (16, 48203), (17, 48224),

Gene: FroggyToad_65 Start: 42630, Stop: 42746, Start Num: 13
Candidate Starts for FroggyToad_65:
(Start: 12 @42627 has 18 MA's), (Start: 13 @42630 has 38 MA's), (15, 42642), (17, 42696), (20, 42735),

Gene: Frokostdame_72 Start: 45952, Stop: 46074, Start Num: 13
Candidate Starts for Frokostdame_72:
(1, 45502), (2, 45550), (3, 45556), (4, 45586), (5, 45631), (6, 45655), (7, 45718), (8, 45727), (Start: 13 @45952 has 38 MA's), (15, 45964), (17, 46018), (22, 46069),

Gene: GemG_65 Start: 41352, Stop: 41468, Start Num: 13

Candidate Starts for GemG_65:
(Start: 12 @41349 has 18 MA's), (Start: 13 @41352 has 38 MA's), (16, 41397), (17, 41418), (20, 41457),

Gene: Gizermo_65 Start: 41348, Stop: 41464, Start Num: 13
Candidate Starts for Gizermo_65:
(Start: 12 @41345 has 18 MA's), (Start: 13 @41348 has 38 MA's), (16, 41393), (17, 41414), (20, 41453),

Gene: Haley23_65 Start: 41348, Stop: 41464, Start Num: 13
Candidate Starts for Haley23_65:
(Start: 12 @41345 has 18 MA's), (Start: 13 @41348 has 38 MA's), (16, 41393), (17, 41414), (20, 41453),

Gene: Herod_71 Start: 48180, Stop: 48299, Start Num: 12
Candidate Starts for Herod_71:
(Start: 12 @48180 has 18 MA's), (Start: 13 @48183 has 38 MA's), (16, 48228), (17, 48249), (20, 48288),

Gene: Hugley_69 Start: 48160, Stop: 48279, Start Num: 12
Candidate Starts for Hugley_69:
(Start: 12 @48160 has 18 MA's), (Start: 13 @48163 has 38 MA's), (16, 48208), (17, 48229), (20, 48268),

Gene: Hyzer_84 Start: 54346, Stop: 54468, Start Num: 13
Candidate Starts for Hyzer_84:
(Start: 12 @54343 has 18 MA's), (Start: 13 @54346 has 38 MA's), (15, 54358), (17, 54412), (19, 54427),

Gene: Invectra_69 Start: 43673, Stop: 43804, Start Num: 13
Candidate Starts for Invectra_69:
(Start: 12 @43670 has 18 MA's), (Start: 13 @43673 has 38 MA's), (15, 43685), (17, 43739),

Gene: JCole_62 Start: 40018, Stop: 40143, Start Num: 12
Candidate Starts for JCole_62:
(Start: 12 @40018 has 18 MA's), (Start: 13 @40021 has 38 MA's), (15, 40033), (16, 40066), (17, 40087),

Gene: Jalleen_68 Start: 41656, Stop: 41778, Start Num: 12
Candidate Starts for Jalleen_68:
(Start: 12 @41656 has 18 MA's), (Start: 13 @41659 has 38 MA's), (16, 41704), (17, 41725),

Gene: Lamberg_61 Start: 39857, Stop: 39973, Start Num: 13
Candidate Starts for Lamberg_61:
(Start: 12 @39854 has 18 MA's), (Start: 13 @39857 has 38 MA's), (16, 39902), (17, 39923), (20, 39962),

Gene: Lilas_66 Start: 47868, Stop: 47990, Start Num: 12
Candidate Starts for Lilas_66:
(Start: 12 @47868 has 18 MA's), (Start: 13 @47871 has 38 MA's), (16, 47916), (17, 47937), (18, 47943), (21, 47976),

Gene: LonelyBoi_68 Start: 48324, Stop: 48443, Start Num: 13

Candidate Starts for LonelyBoi_68:
(Start: 12 @48321 has 18 MA's), (Start: 13 @48324 has 38 MA's), (15, 48336), (16, 48369), (17, 48390),

Gene: LordFarquaad_66 Start: 43096, Stop: 43215, Start Num: 13
Candidate Starts for LordFarquaad_66:
(Start: 13 @43096 has 38 MA's), (15, 43108), (21, 43201), (22, 43207),

Gene: Madavieve_66 Start: 46256, Stop: 46384, Start Num: 13
Candidate Starts for Madavieve_66:
(Start: 12 @46253 has 18 MA's), (Start: 13 @46256 has 38 MA's), (15, 46268), (16, 46301), (17, 46322), (20, 46364),

Gene: MakCheese_75 Start: 47979, Stop: 48095, Start Num: 13
Candidate Starts for MakCheese_75:
(Start: 12 @47976 has 18 MA's), (Start: 13 @47979 has 38 MA's), (17, 48045), (20, 48084),

Gene: Manasvini_69 Start: 44779, Stop: 44901, Start Num: 12
Candidate Starts for Manasvini_69:
(Start: 12 @44779 has 18 MA's), (Start: 13 @44782 has 38 MA's), (15, 44794), (17, 44848),

Gene: Maridalia_70 Start: 46136, Stop: 46264, Start Num: 13
Candidate Starts for Maridalia_70:
(Start: 12 @46133 has 18 MA's), (Start: 13 @46136 has 38 MA's), (15, 46148), (16, 46181), (17, 46202), (20, 46244),

Gene: Marteena_69 Start: 46267, Stop: 46386, Start Num: 12
Candidate Starts for Marteena_69:
(Start: 12 @46267 has 18 MA's), (Start: 13 @46270 has 38 MA's), (15, 46282), (16, 46315), (17, 46336), (20, 46375),

Gene: Mcklovin_67 Start: 48617, Stop: 48730, Start Num: 12
Candidate Starts for Mcklovin_67:
(9, 48416), (10, 48419), (Start: 12 @48617 has 18 MA's), (Start: 13 @48620 has 38 MA's), (15, 48632), (17, 48686),

Gene: Mocha12_65 Start: 41345, Stop: 41464, Start Num: 12
Candidate Starts for Mocha12_65:
(Start: 12 @41345 has 18 MA's), (Start: 13 @41348 has 38 MA's), (16, 41393), (17, 41414), (20, 41453),

Gene: Nettuno_62 Start: 40233, Stop: 40352, Start Num: 13
Candidate Starts for Nettuno_62:
(Start: 12 @40230 has 18 MA's), (Start: 13 @40233 has 38 MA's), (15, 40245), (16, 40278), (17, 40299),

Gene: Nymphadora_71 Start: 47788, Stop: 47904, Start Num: 13
Candidate Starts for Nymphadora_71:
(Start: 12 @47785 has 18 MA's), (Start: 13 @47788 has 38 MA's), (16, 47833), (17, 47854), (20, 47893),

Gene: Ohgeesy_69 Start: 46561, Stop: 46692, Start Num: 13
Candidate Starts for Ohgeesy_69:

(Start: 12 @46558 has 18 MA's), (Start: 13 @46561 has 38 MA's), (15, 46573), (16, 46606), (17, 46627),

Gene: Oregano_67 Start: 42226, Stop: 42348, Start Num: 13
Candidate Starts for Oregano_67:
(11, 42208), (Start: 12 @42223 has 18 MA's), (Start: 13 @42226 has 38 MA's), (15, 42238), (17, 42292),

Gene: PantheRoc_73 Start: 47482, Stop: 47598, Start Num: 13
Candidate Starts for PantheRoc_73:
(Start: 12 @47479 has 18 MA's), (Start: 13 @47482 has 38 MA's), (16, 47527), (17, 47548), (20, 47587),

Gene: Pollux_73 Start: 48155, Stop: 48277, Start Num: 12
Candidate Starts for Pollux_73:
(Start: 12 @48155 has 18 MA's), (Start: 13 @48158 has 38 MA's), (15, 48170), (16, 48203), (17, 48224),

Gene: Pytheas_73 Start: 49014, Stop: 49127, Start Num: 12
Candidate Starts for Pytheas_73:
(Start: 12 @49014 has 18 MA's), (Start: 13 @49017 has 38 MA's), (15, 49029), (16, 49062), (17, 49083),

Gene: RavenCo17_66 Start: 46025, Stop: 46147, Start Num: 13
Candidate Starts for RavenCo17_66:
(Start: 12 @46022 has 18 MA's), (Start: 13 @46025 has 38 MA's), (15, 46037), (17, 46091),

Gene: Samman98_67 Start: 42203, Stop: 42334, Start Num: 13
Candidate Starts for Samman98_67:
(Start: 12 @42200 has 18 MA's), (Start: 13 @42203 has 38 MA's), (15, 42215), (17, 42269),

Gene: Savage_65 Start: 41345, Stop: 41464, Start Num: 12
Candidate Starts for Savage_65:
(Start: 12 @41345 has 18 MA's), (Start: 13 @41348 has 38 MA's), (16, 41393), (17, 41414), (20, 41453),

Gene: Sekhmet_66 Start: 42430, Stop: 42546, Start Num: 13
Candidate Starts for Sekhmet_66:
(Start: 12 @42427 has 18 MA's), (Start: 13 @42430 has 38 MA's), (17, 42496), (20, 42535),

Gene: Sproutie_65 Start: 41345, Stop: 41464, Start Num: 12
Candidate Starts for Sproutie_65:
(Start: 12 @41345 has 18 MA's), (Start: 13 @41348 has 38 MA's), (16, 41393), (17, 41414), (20, 41453),

Gene: Suerte_61 Start: 42042, Stop: 42161, Start Num: 12
Candidate Starts for Suerte_61:
(Start: 12 @42042 has 18 MA's), (Start: 13 @42045 has 38 MA's), (15, 42057), (17, 42111), (20, 42150),

Gene: ThankyouJordi_70 Start: 48267, Stop: 48392, Start Num: 13
Candidate Starts for ThankyouJordi_70:
(Start: 12 @48264 has 18 MA's), (Start: 13 @48267 has 38 MA's), (15, 48279), (17, 48333),

Gene: Thimann_67 Start: 42460, Stop: 42591, Start Num: 13
Candidate Starts for Thimann_67:
(11, 42442), (Start: 12 @42457 has 18 MA's), (Start: 13 @42460 has 38 MA's), (15, 42472), (17, 42526),

Gene: TimTam_71 Start: 47788, Stop: 47904, Start Num: 13
Candidate Starts for TimTam_71:
(Start: 12 @47785 has 18 MA's), (Start: 13 @47788 has 38 MA's), (16, 47833), (17, 47854), (20, 47893),

Gene: TinyDot_56 Start: 34790, Stop: 34909, Start Num: 14
Candidate Starts for TinyDot_56:
(Start: 14 @34790 has 1 MA's),

Gene: TuertoX_65 Start: 41348, Stop: 41464, Start Num: 13
Candidate Starts for TuertoX_65:
(Start: 12 @41345 has 18 MA's), (Start: 13 @41348 has 38 MA's), (16, 41393), (17, 41414), (20, 41453),

Gene: Tuti_67 Start: 43210, Stop: 43332, Start Num: 13
Candidate Starts for Tuti_67:
(11, 43192), (Start: 12 @43207 has 18 MA's), (Start: 13 @43210 has 38 MA's), (17, 43276),

Gene: WelcomeAyanna_70 Start: 48414, Stop: 48539, Start Num: 13
Candidate Starts for WelcomeAyanna_70:
(Start: 12 @48411 has 18 MA's), (Start: 13 @48414 has 38 MA's), (15, 48426), (17, 48480),

Gene: Whiteclaw_65 Start: 41348, Stop: 41464, Start Num: 13
Candidate Starts for Whiteclaw_65:
(Start: 12 @41345 has 18 MA's), (Start: 13 @41348 has 38 MA's), (16, 41393), (17, 41414), (20, 41453),

Gene: WinkNick_67 Start: 41954, Stop: 42070, Start Num: 13
Candidate Starts for WinkNick_67:
(Start: 12 @41951 has 18 MA's), (Start: 13 @41954 has 38 MA's), (17, 42020), (20, 42059),

Gene: Yeezy_72 Start: 45608, Stop: 45733, Start Num: 12
Candidate Starts for Yeezy_72:
(Start: 12 @45608 has 18 MA's), (Start: 13 @45611 has 38 MA's), (15, 45623), (16, 45656), (17, 45677),