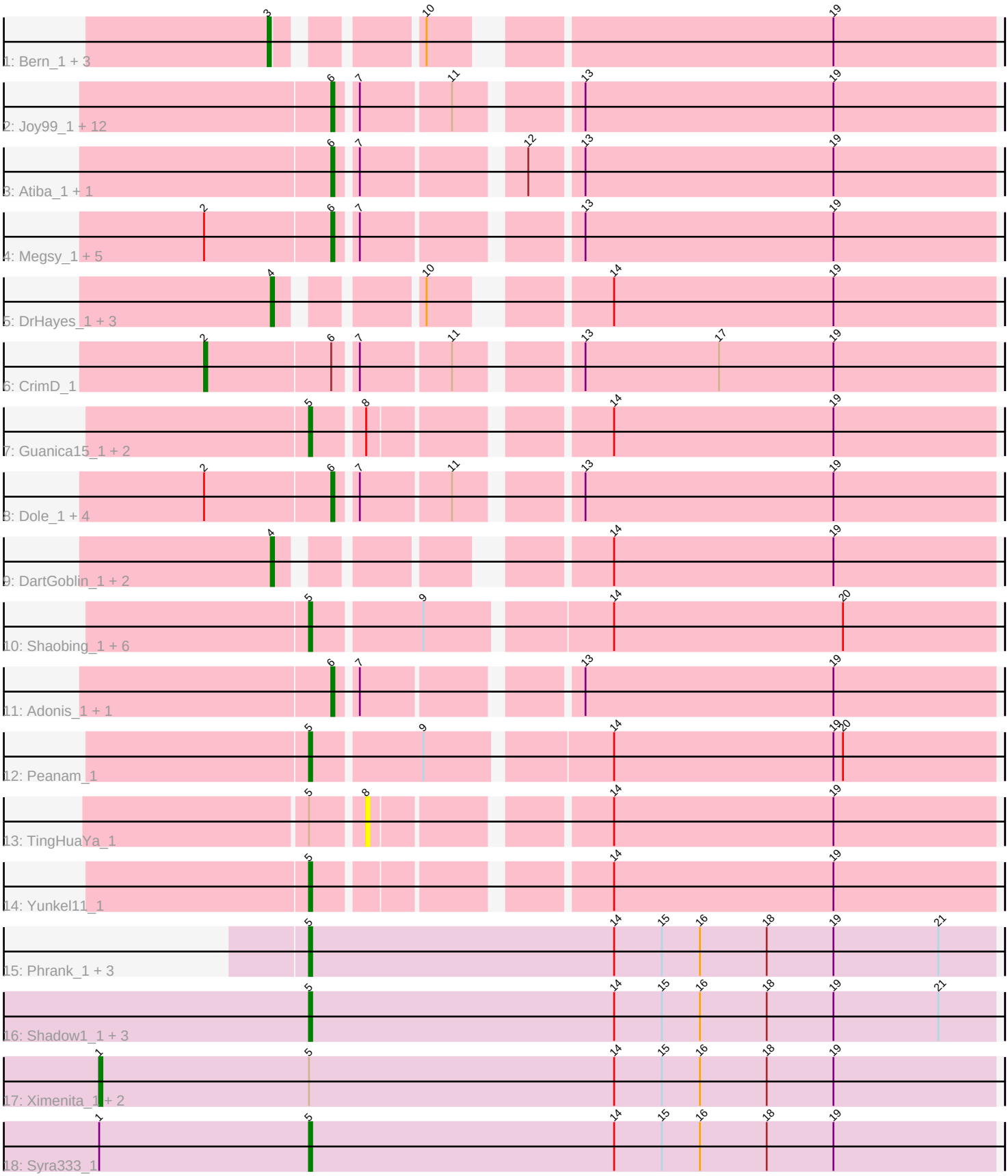
Pham 347605


1: Bern_1 + 3
2: Joy99_1 + 12
3: Atiba_1 + 1
4: Megsy_1 + 5
5: DrHayes_1 + 3
6: CrimD_1
7: Guanica15_1 + 2
8: Dole_1 + 4
9: DartGoblin_1 + 2
10: Shaobing_1 + 6
11: Adonis_1 + 1
12: Peanam_1
13: TingHuaYa_1
14: Yunkel11_1
15: Phrank_1 + 3
16: Shadow1_1 + 3
17: Ximenita_1 + 2
18: Syra333_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 347605 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347605 has 65 members, 6 are drafts.

Phages represented in each track:
• Track 1 : Bern_1, Kheparia_1, Pisa4_1, Pisa1_1
• Track 2 : Joy99_1, Ganymede_1, Clipper_1, CallaLilly_1, Pokerus_1, Mynx_1, MeaningOfLife_1, YoureAdopted_1, MacKat_1, CheetoDust_1, BaghaKamala_1, Zavala_1, QuincyRose_1
• Track 3 : Atiba_1, Tachez_1
• Track 4 : Megsy_1, Murucutumbu_1, Prithvi_1, LindNT_1, TaiwanKao_1, TreyKay_1
• Track 5 : DrHayes_1, Anma_1, Urkel_1, SamuelLPlaqson_1
• Track 6 : CrimD_1
• Track 7 : Guanica15_1, Efra2_1, LastHope_1
• Track 8 : Dole_1, Illumine_1, Stinson_1, Devera_1, LaterM_1
• Track 9 : DartGoblin_1, TiniBug_1, Bella96_1
• Track 10 : Shaobing_1, Niklas_1, Chavito_1, Richo_1, McMater_1, Validus_1, Dartin_1
• Track 11 : Adonis_1, Tiri_1
• Track 12 : Peanam_1
• Track 13 : TingHuaYa_1
• Track 14 : Yunkel11_1
• Track 15 : Phrank_1, Bryler_1, Sunflower1121_1, Cain_1
• Track 16 : Shadow1_1, PhelpsODU_1, Tierra_1, Unicorn_1
• Track 17 : Ximenita_1, Krueger_1, Tigress9_1
• Track 18 : Syra333_1

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

The start number called the most often in the published annotations is 6, it was called in 27 of the 59 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Adonis_1, Atiba_1, BaghaKamala_1, CallaLilly_1, CheetoDust_1, Clipper_1, Devera_1, Dole_1, Ganymede_1, Illumine_1, Joy99_1, LaterM_1, LindNT_1, MacKat_1, MeaningOfLife_1, Megsy_1, Murucutumbu_1, Mynx_1, Pokerus_1, Prithvi_1, QuincyRose_1, Stinson_1, Tachez_1, TaiwanKao_1, Tiri_1, TreyKay_1, YoureAdopted_1, Zavala_1,

Genes that have the "Most Annotated" start but do not call it:
• CrimD_1,

Genes that do not have the "Most Annotated" start:
• Anma_1, Bella96_1, Bern_1, Bryler_1, Cain_1, Chavito_1, DartGoblin_1, Dartin_1, DrHayes_1, Efra2_1, Guanica15_1, Kheparia_1, Krueger_1, LastHope_1, McMater_1, Niklas_1, Peanam_1, PhelpsODU_1, Phrank_1, Pisa1_1, Pisa4_1, Richo_1, SamuelLPlaqson_1, Shadow1_1, Shaobing_1, Sunflower1121_1, Syra333_1, Tierra_1, Tigress9_1, TingHuaYa_1, TiniBug_1, Unicorn_1, Urkel_1, Validus_1, Ximenita_1, Yunkel11_1,

Summary by start number:

Start 1:
• Found in 4 of 65 (6.2%) of genes in pham
• Manual Annotations of this start: 3 of 59
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Krueger_1 (K6), Tigress9_1 (K6), Ximenita_1 (K6),

Start 2:
• Found in 12 of 65 (18.5%) of genes in pham
• Manual Annotations of this start: 1 of 59
• Called 8.3% of time when present
• Phage (with cluster) where this start called: CrimD_1 (K1),

Start 3:
• Found in 4 of 65 (6.2%) of genes in pham
• Manual Annotations of this start: 1 of 59
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bern_1 (K1), Kheparia_1 (K1), Pisa1_1 (K1), Pisa4_1 (K1),

Start 4:
• Found in 7 of 65 (10.8%) of genes in pham
• Manual Annotations of this start: 7 of 59
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Anma_1 (K1), Bella96_1 (K1), DartGoblin_1 (K1), DrHayes_1 (K1), SamuelLPlaqson_1 (K1), TiniBug_1 (K1), Urkel_1 (K1),

Start 5:
• Found in 25 of 65 (38.5%) of genes in pham
• Manual Annotations of this start: 20 of 59
• Called 84.0% of time when present
• Phage (with cluster) where this start called: Bryler_1 (K6), Cain_1 (K6), Chavito_1 (K1), Dartin_1 (K1), Efra2_1 (K1), Guanica15_1 (K1), LastHope_1 (K1), McMater_1 (K1), Niklas_1 (K1), Peanam_1 (K1), PhelpsODU_1 (K6), Phrank_1 (K6), Richo_1 (K1), Shadow1_1 (K6), Shaobing_1 (K1), Sunflower1121_1 (K6), Syra333_1 (K6), Tierra_1 (K6), Unicorn_1 (K6), Validus_1 (K1), Yunkel11_1 (K1),

Start 6:
• Found in 29 of 65 (44.6%) of genes in pham

• Manual Annotations of this start: 27 of 59
• Called 96.6% of time when present
• Phage (with cluster) where this start called: Adonis_1 (K1), Atiba_1 (K1), BaghaKamala_1 (K1), CallaLilly_1 (K1), CheetoDust_1 (K1), Clipper_1 (K1), Devera_1 (K1), Dole_1 (K1), Ganymede_1 (K1), Illumine_1 (K1), Joy99_1 (K1), LaterM_1 (K1), LindNT_1 (K1), MacKat_1 (K1), MeaningOfLife_1 (K1), Megsy_1 (K1), Murucutumbu_1 (K1), Mynx_1 (K1), Pokerus_1 (K1), Prithvi_1 (K1), QuincyRose_1 (K1), Stinson_1 (K1), Tachez_1 (K1), TaiwanKao_1 (K1), Tiri_1 (K1), TreyKay_1 (K1), YoureAdopted_1 (K1), Zavala_1 (K1),

Start 8:
• Found in 4 of 65 (6.2%) of genes in pham
• No Manual Annotations of this start.
• Called 25.0% of time when present
• Phage (with cluster) where this start called: TingHuaYa_1 (K1),

Summary by clusters:

There are 2 clusters represented in this pham: K1, K6,

Info for manual annotations of cluster K1:
•Start number 2 was manually annotated 1 time for cluster K1.
•Start number 3 was manually annotated 1 time for cluster K1.
•Start number 4 was manually annotated 7 times for cluster K1.
•Start number 5 was manually annotated 11 times for cluster K1.
•Start number 6 was manually annotated 27 times for cluster K1.

Info for manual annotations of cluster K6:
•Start number 1 was manually annotated 3 times for cluster K6.
•Start number 5 was manually annotated 9 times for cluster K6.

Gene Information:

Gene: Adonis_1 Start: 79, Stop: 273, Start Num: 6
Candidate Starts for Adonis_1:
(Start: 6 @79 has 27 MA's), (7, 85), (13, 145), (19, 223),

Gene: Anma_1 Start: 61, Stop: 261, Start Num: 4
Candidate Starts for Anma_1:
(Start: 4 @61 has 7 MA's), (10, 97), (14, 142), (19, 211),

Gene: Atiba_1 Start: 79, Stop: 273, Start Num: 6
Candidate Starts for Atiba_1:
(Start: 6 @79 has 27 MA's), (7, 85), (12, 130), (13, 145), (19, 223),

Gene: BaghaKamala_1 Start: 79, Stop: 273, Start Num: 6
Candidate Starts for BaghaKamala_1:
(Start: 6 @79 has 27 MA's), (7, 85), (11, 112), (13, 145), (19, 223),

Gene: Bella96_1 Start: 61, Stop: 261, Start Num: 4
Candidate Starts for Bella96_1:

(Start: 4 @61 has 7 MA's), (14, 142), (19, 211),

Gene: Bern_1 Start: 60, Stop: 260, Start Num: 3
Candidate Starts for Bern_1:
(Start: 3 @60 has 1 MA's), (10, 96), (19, 210),

Gene: Bryler_1 Start: 114, Stop: 323, Start Num: 5
Candidate Starts for Bryler_1:
(Start: 5 @114 has 20 MA's), (14, 204), (15, 219), (16, 231), (18, 252), (19, 273), (21, 306),

Gene: Cain_1 Start: 114, Stop: 323, Start Num: 5
Candidate Starts for Cain_1:
(Start: 5 @114 has 20 MA's), (14, 204), (15, 219), (16, 231), (18, 252), (19, 273), (21, 306),

Gene: CallaLilly_1 Start: 79, Stop: 273, Start Num: 6
Candidate Starts for CallaLilly_1:
(Start: 6 @79 has 27 MA's), (7, 85), (11, 112), (13, 145), (19, 223),

Gene: Chavito_1 Start: 71, Stop: 280, Start Num: 5
Candidate Starts for Chavito_1:
(Start: 5 @71 has 20 MA's), (9, 104), (14, 158), (20, 230),

Gene: CheetoDust_1 Start: 79, Stop: 273, Start Num: 6
Candidate Starts for CheetoDust_1:
(Start: 6 @79 has 27 MA's), (7, 85), (11, 112), (13, 145), (19, 223),

Gene: Clipper_1 Start: 79, Stop: 273, Start Num: 6
Candidate Starts for Clipper_1:
(Start: 6 @79 has 27 MA's), (7, 85), (11, 112), (13, 145), (19, 223),

Gene: CrimD_1 Start: 40, Stop: 273, Start Num: 2
Candidate Starts for CrimD_1:
(Start: 2 @40 has 1 MA's), (Start: 6 @79 has 27 MA's), (7, 85), (11, 112), (13, 145), (17, 187), (19, 223),

Gene: DartGoblin_1 Start: 61, Stop: 261, Start Num: 4
Candidate Starts for DartGoblin_1:
(Start: 4 @61 has 7 MA's), (14, 142), (19, 211),

Gene: Dartin_1 Start: 72, Stop: 278, Start Num: 5
Candidate Starts for Dartin_1:
(Start: 5 @72 has 20 MA's), (9, 105), (14, 159), (20, 231),

Gene: Devera_1 Start: 79, Stop: 273, Start Num: 6
Candidate Starts for Devera_1:
(Start: 2 @40 has 1 MA's), (Start: 6 @79 has 27 MA's), (7, 85), (11, 112), (13, 145), (19, 223),

Gene: Dole_1 Start: 79, Stop: 273, Start Num: 6
Candidate Starts for Dole_1:
(Start: 2 @40 has 1 MA's), (Start: 6 @79 has 27 MA's), (7, 85), (11, 112), (13, 145), (19, 223),

Gene: DrHayes_1 Start: 61, Stop: 261, Start Num: 4
Candidate Starts for DrHayes_1:

(Start: 4 @61 has 7 MA's), (10, 97), (14, 142), (19, 211),

Gene: Efra2_1 Start: 72, Stop: 272, Start Num: 5
Candidate Starts for Efra2_1:
(Start: 5 @72 has 20 MA's), (8, 87), (14, 153), (19, 222),

Gene: Ganymede_1 Start: 79, Stop: 273, Start Num: 6
Candidate Starts for Ganymede_1:
(Start: 6 @79 has 27 MA's), (7, 85), (11, 112), (13, 145), (19, 223),

Gene: Guanica15_1 Start: 72, Stop: 272, Start Num: 5
Candidate Starts for Guanica15_1:
(Start: 5 @72 has 20 MA's), (8, 87), (14, 153), (19, 222),

Gene: Illumine_1 Start: 79, Stop: 273, Start Num: 6
Candidate Starts for Illumine_1:
(Start: 2 @40 has 1 MA's), (Start: 6 @79 has 27 MA's), (7, 85), (11, 112), (13, 145), (19, 223),

Gene: Joy99_1 Start: 79, Stop: 273, Start Num: 6
Candidate Starts for Joy99_1:
(Start: 6 @79 has 27 MA's), (7, 85), (11, 112), (13, 145), (19, 223),

Gene: Kheparia_1 Start: 60, Stop: 260, Start Num: 3
Candidate Starts for Kheparia_1:
(Start: 3 @60 has 1 MA's), (10, 96), (19, 210),

Gene: Krueger_1 Start: 49, Stop: 330, Start Num: 1
Candidate Starts for Krueger_1:
(Start: 1 @49 has 3 MA's), (Start: 5 @115 has 20 MA's), (14, 211), (15, 226), (16, 238), (18, 259), (19, 280),

Gene: LastHope_1 Start: 71, Stop: 271, Start Num: 5
Candidate Starts for LastHope_1:
(Start: 5 @71 has 20 MA's), (8, 86), (14, 152), (19, 221),

Gene: LaterM_1 Start: 79, Stop: 273, Start Num: 6
Candidate Starts for LaterM_1:
(Start: 2 @40 has 1 MA's), (Start: 6 @79 has 27 MA's), (7, 85), (11, 112), (13, 145), (19, 223),

Gene: LindNT_1 Start: 79, Stop: 273, Start Num: 6
Candidate Starts for LindNT_1:
(Start: 2 @40 has 1 MA's), (Start: 6 @79 has 27 MA's), (7, 85), (13, 145), (19, 223),

Gene: MacKat_1 Start: 79, Stop: 273, Start Num: 6
Candidate Starts for MacKat_1:
(Start: 6 @79 has 27 MA's), (7, 85), (11, 112), (13, 145), (19, 223),

Gene: McMater_1 Start: 72, Stop: 278, Start Num: 5
Candidate Starts for McMater_1:
(Start: 5 @72 has 20 MA's), (9, 105), (14, 159), (20, 231),

Gene: MeaningOfLife_1 Start: 79, Stop: 273, Start Num: 6
Candidate Starts for MeaningOfLife_1:

(Start: 6 @79 has 27 MA's), (7, 85), (11, 112), (13, 145), (19, 223),

Gene: Megsy_1 Start: 79, Stop: 273, Start Num: 6
Candidate Starts for Megsy_1:
(Start: 2 @40 has 1 MA's), (Start: 6 @79 has 27 MA's), (7, 85), (13, 145), (19, 223),

Gene: Murucutumbu_1 Start: 79, Stop: 273, Start Num: 6
Candidate Starts for Murucutumbu_1:
(Start: 2 @40 has 1 MA's), (Start: 6 @79 has 27 MA's), (7, 85), (13, 145), (19, 223),

Gene: Mynx_1 Start: 79, Stop: 273, Start Num: 6
Candidate Starts for Mynx_1:
(Start: 6 @79 has 27 MA's), (7, 85), (11, 112), (13, 145), (19, 223),

Gene: Niklas_1 Start: 72, Stop: 278, Start Num: 5
Candidate Starts for Niklas_1:
(Start: 5 @72 has 20 MA's), (9, 105), (14, 159), (20, 231),

Gene: Peanam_1 Start: 72, Stop: 278, Start Num: 5
Candidate Starts for Peanam_1:
(Start: 5 @72 has 20 MA's), (9, 105), (14, 159), (19, 228), (20, 231),

Gene: PhelpsODU_1 Start: 115, Stop: 324, Start Num: 5
Candidate Starts for PhelpsODU_1:
(Start: 5 @115 has 20 MA's), (14, 205), (15, 220), (16, 232), (18, 253), (19, 274), (21, 307),

Gene: Phrank_1 Start: 114, Stop: 329, Start Num: 5
Candidate Starts for Phrank_1:
(Start: 5 @114 has 20 MA's), (14, 210), (15, 225), (16, 237), (18, 258), (19, 279), (21, 312),

Gene: Pisa1_1 Start: 60, Stop: 260, Start Num: 3
Candidate Starts for Pisa1_1:
(Start: 3 @60 has 1 MA's), (10, 96), (19, 210),

Gene: Pisa4_1 Start: 60, Stop: 260, Start Num: 3
Candidate Starts for Pisa4_1:
(Start: 3 @60 has 1 MA's), (10, 96), (19, 210),

Gene: Pokerus_1 Start: 79, Stop: 273, Start Num: 6
Candidate Starts for Pokerus_1:
(Start: 6 @79 has 27 MA's), (7, 85), (11, 112), (13, 145), (19, 223),

Gene: Prithvi_1 Start: 79, Stop: 273, Start Num: 6
Candidate Starts for Prithvi_1:
(Start: 2 @40 has 1 MA's), (Start: 6 @79 has 27 MA's), (7, 85), (13, 145), (19, 223),

Gene: QuincyRose_1 Start: 79, Stop: 273, Start Num: 6
Candidate Starts for QuincyRose_1:
(Start: 6 @79 has 27 MA's), (7, 85), (11, 112), (13, 145), (19, 223),

Gene: Richo_1 Start: 72, Stop: 278, Start Num: 5
Candidate Starts for Richo_1:
(Start: 5 @72 has 20 MA's), (9, 105), (14, 159), (20, 231),

Gene: SamuelLPlaqson_1 Start: 61, Stop: 261, Start Num: 4
Candidate Starts for SamuelLPlaqson_1:
(Start: 4 @61 has 7 MA's), (10, 97), (14, 142), (19, 211),

Gene: Shadow1_1 Start: 115, Stop: 330, Start Num: 5
Candidate Starts for Shadow1_1:
(Start: 5 @115 has 20 MA's), (14, 211), (15, 226), (16, 238), (18, 259), (19, 280), (21, 313),

Gene: Shaobing_1 Start: 72, Stop: 278, Start Num: 5
Candidate Starts for Shaobing_1:
(Start: 5 @72 has 20 MA's), (9, 105), (14, 159), (20, 231),

Gene: Stinson_1 Start: 79, Stop: 273, Start Num: 6
Candidate Starts for Stinson_1:
(Start: 2 @40 has 1 MA's), (Start: 6 @79 has 27 MA's), (7, 85), (11, 112), (13, 145), (19, 223),

Gene: Sunflower1121_1 Start: 114, Stop: 329, Start Num: 5
Candidate Starts for Sunflower1121_1:
(Start: 5 @114 has 20 MA's), (14, 210), (15, 225), (16, 237), (18, 258), (19, 279), (21, 312),

Gene: Syra333_1 Start: 115, Stop: 330, Start Num: 5
Candidate Starts for Syra333_1:
(Start: 1 @49 has 3 MA's), (Start: 5 @115 has 20 MA's), (14, 211), (15, 226), (16, 238), (18, 259), (19, 280),

Gene: Tachez_1 Start: 79, Stop: 273, Start Num: 6
Candidate Starts for Tachez_1:
(Start: 6 @79 has 27 MA's), (7, 85), (12, 130), (13, 145), (19, 223),

Gene: TaiwanKao_1 Start: 79, Stop: 273, Start Num: 6
Candidate Starts for TaiwanKao_1:
(Start: 2 @40 has 1 MA's), (Start: 6 @79 has 27 MA's), (7, 85), (13, 145), (19, 223),

Gene: Tierra_1 Start: 115, Stop: 330, Start Num: 5
Candidate Starts for Tierra_1:
(Start: 5 @115 has 20 MA's), (14, 211), (15, 226), (16, 238), (18, 259), (19, 280), (21, 313),

Gene: Tigress9_1 Start: 49, Stop: 330, Start Num: 1
Candidate Starts for Tigress9_1:
(Start: 1 @49 has 3 MA's), (Start: 5 @115 has 20 MA's), (14, 211), (15, 226), (16, 238), (18, 259), (19, 280),

Gene: TingHuaYa_1 Start: 86, Stop: 271, Start Num: 8
Candidate Starts for TingHuaYa_1:
(Start: 5 @71 has 20 MA's), (8, 86), (14, 152), (19, 221),

Gene: TiniBug_1 Start: 61, Stop: 261, Start Num: 4
Candidate Starts for TiniBug_1:
(Start: 4 @61 has 7 MA's), (14, 142), (19, 211),

Gene: Tiri_1 Start: 79, Stop: 273, Start Num: 6
Candidate Starts for Tiri_1:

(Start: 6 @79 has 27 MA's), (7, 85), (13, 145), (19, 223),

Gene: TreyKay_1 Start: 79, Stop: 273, Start Num: 6
Candidate Starts for TreyKay_1:
(Start: 2 @40 has 1 MA's), (Start: 6 @79 has 27 MA's), (7, 85), (13, 145), (19, 223),

Gene: Unicorn_1 Start: 115, Stop: 324, Start Num: 5
Candidate Starts for Unicorn_1:
(Start: 5 @115 has 20 MA's), (14, 205), (15, 220), (16, 232), (18, 253), (19, 274), (21, 307),

Gene: Urkel_1 Start: 61, Stop: 261, Start Num: 4
Candidate Starts for Urkel_1:
(Start: 4 @61 has 7 MA's), (10, 97), (14, 142), (19, 211),

Gene: Validus_1 Start: 71, Stop: 280, Start Num: 5
Candidate Starts for Validus_1:
(Start: 5 @71 has 20 MA's), (9, 104), (14, 158), (20, 230),

Gene: Ximenita_1 Start: 49, Stop: 330, Start Num: 1
Candidate Starts for Ximenita_1:
(Start: 1 @49 has 3 MA's), (Start: 5 @115 has 20 MA's), (14, 211), (15, 226), (16, 238), (18, 259), (19, 280),

Gene: YoureAdopted_1 Start: 79, Stop: 273, Start Num: 6
Candidate Starts for YoureAdopted_1:
(Start: 6 @79 has 27 MA's), (7, 85), (11, 112), (13, 145), (19, 223),

Gene: Yunkel11_1 Start: 72, Stop: 272, Start Num: 5
Candidate Starts for Yunkel11_1:
(Start: 5 @72 has 20 MA's), (14, 153), (19, 222),

Gene: Zavala_1 Start: 79, Stop: 273, Start Num: 6
Candidate Starts for Zavala_1:
(Start: 6 @79 has 27 MA's), (7, 85), (11, 112), (13, 145), (19, 223),