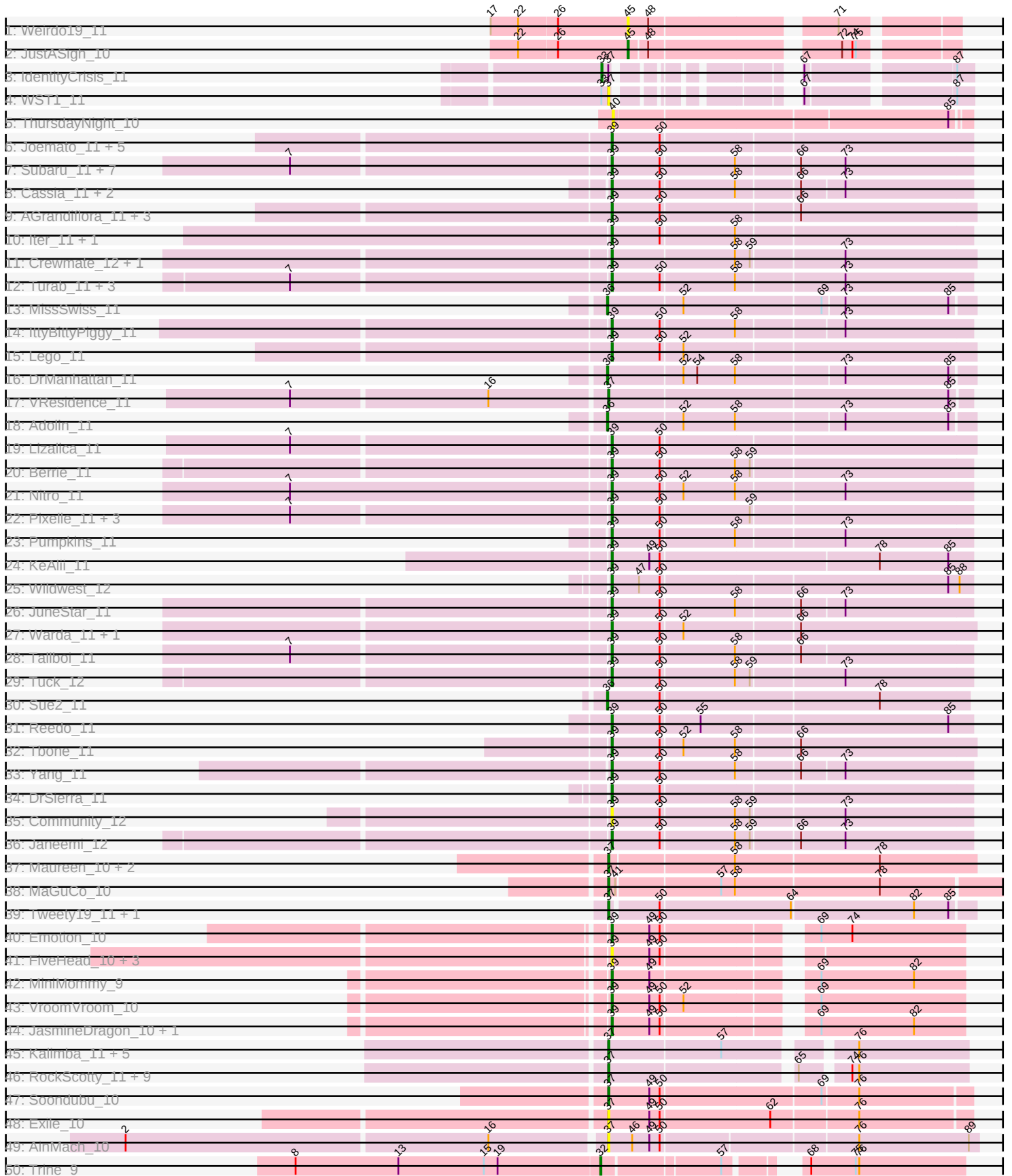
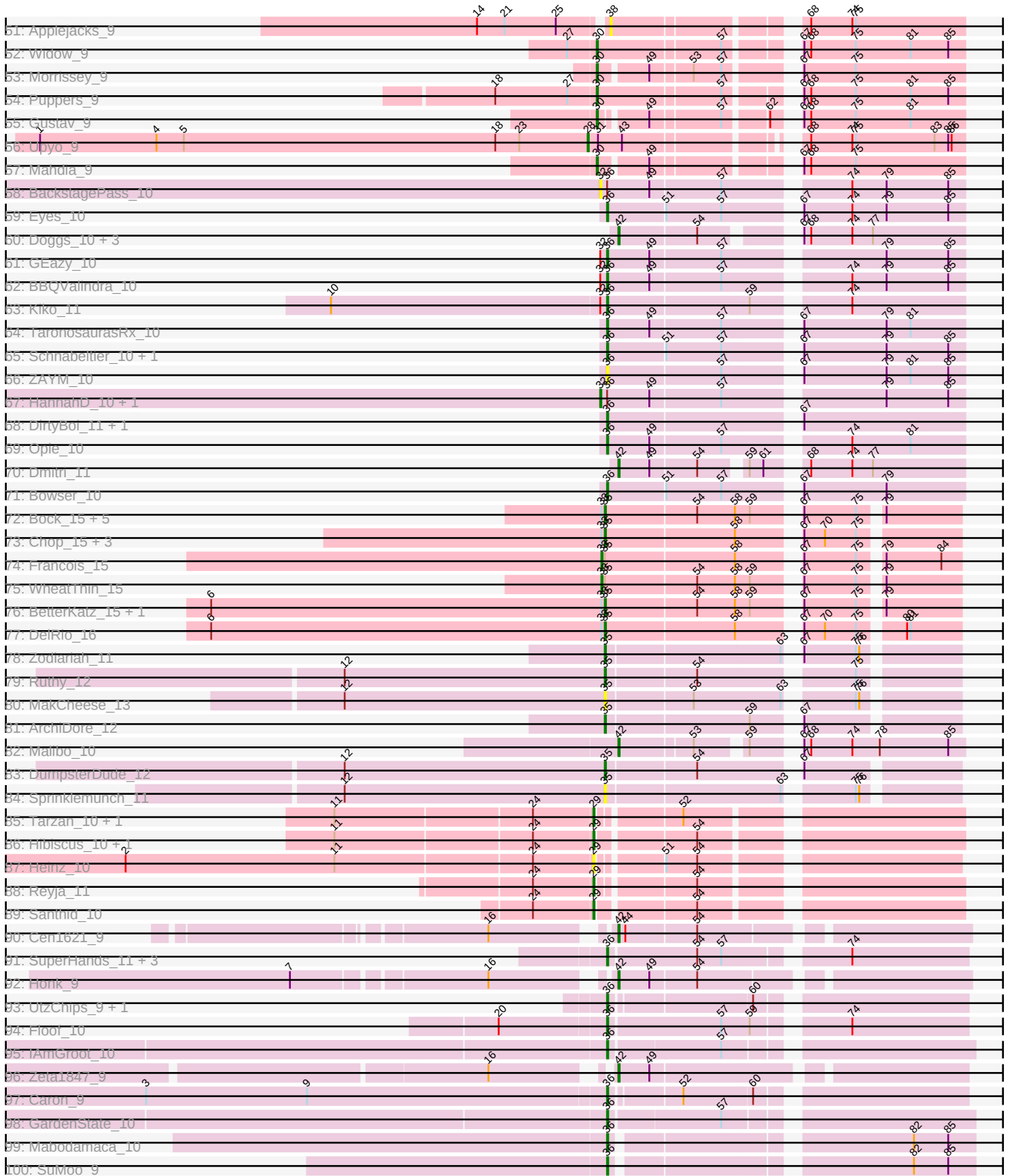


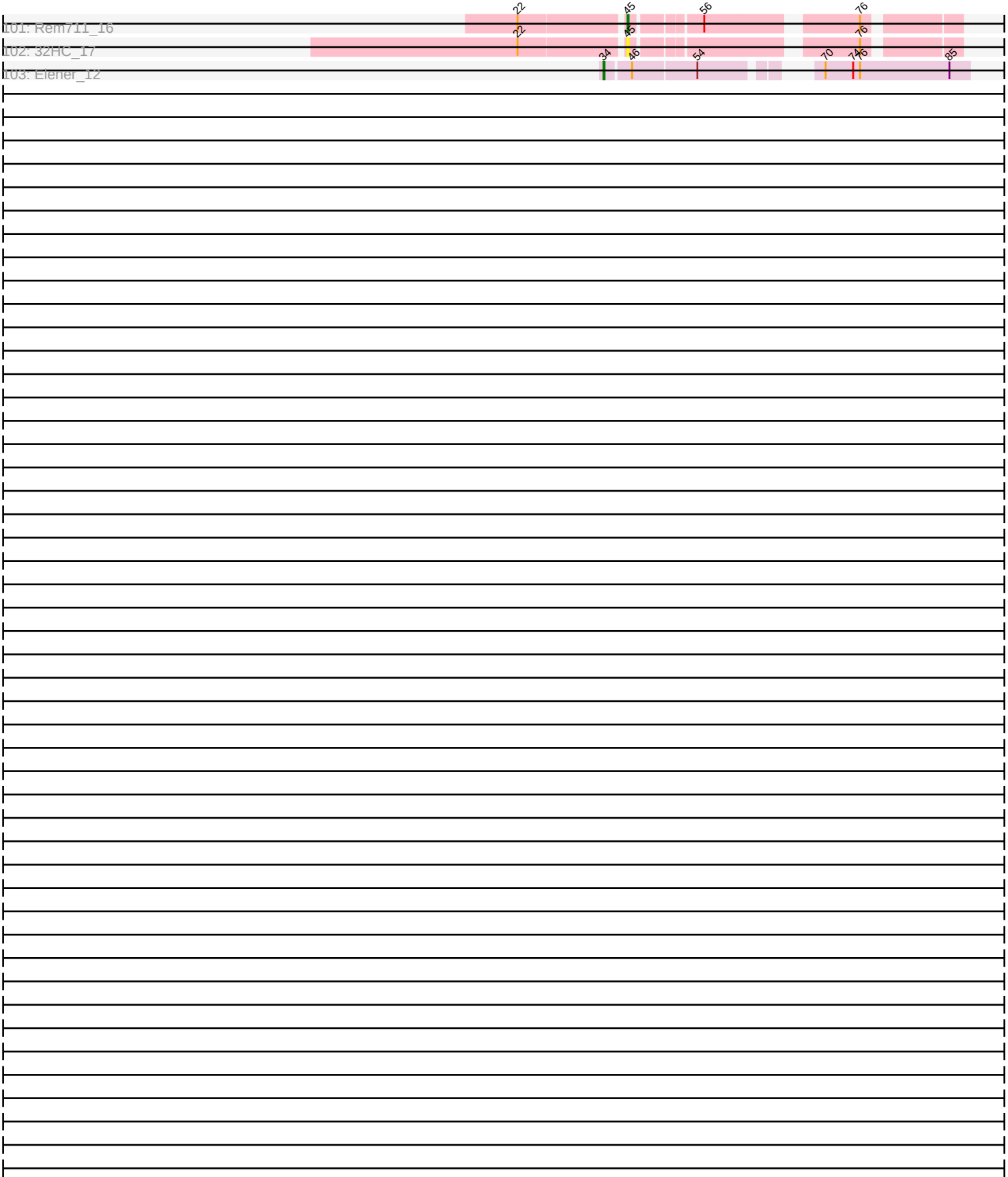
Pham 275951



Pham 275951



Pham 275951



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 275951 Report

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

Pham number 275951 has 171 members, 32 are drafts.

Phages represented in each track:

- Track 1 : WeirDo19_11
- Track 2 : JustASigh_10
- Track 3 : IdentityCrisis_11
- Track 4 : WST1_11
- Track 5 : ThursdayNight_10
- Track 6 : Joemato_11, JohnDoe_11, Cyan_11, Simpson_12, Kaylissa_11, Flutur_11
- Track 7 : Subaru_11, Elezi_11, Jstan_11, Eraser_11, Niobe_11, Skelbel_11, Asa16_11, London_11
- Track 8 : Cassia_11, TforTroy_11, Schaffner_11
- Track 9 : AGrandiflora_11, YesChef_11, Tutumahutu_11, Powerpuff_11
- Track 10 : Iter_11, Ascela_11
- Track 11 : Crewmate_12, ObiToo_11
- Track 12 : Turab_11, Adumb2043_11, Amploria_11, AEgle_11
- Track 13 : MissSwiss_11
- Track 14 : IttyBittyPiggy_11
- Track 15 : Lego_11
- Track 16 : DrManhattan_11
- Track 17 : VResidence_11
- Track 18 : Adolin_11
- Track 19 : Lizalica_11
- Track 20 : Berrie_11
- Track 21 : Nitro_11
- Track 22 : Pixelle_11, Tian_11, Amyev_11, Phives_12
- Track 23 : Pumpkins_11
- Track 24 : KeAlii_11
- Track 25 : Wildwest_12
- Track 26 : JuneStar_11
- Track 27 : Warda_11, Mudpuppy_11
- Track 28 : Tallboi_11
- Track 29 : Tuck_12
- Track 30 : Sue2_11
- Track 31 : Reedo_11
- Track 32 : Tbone_11
- Track 33 : Yang_11
- Track 34 : DrSierra_11
- Track 35 : Community_12
- Track 36 : Janeemi_12

- Track 37 : Maureen_10, IUFootball_10, Liebe_10
- Track 38 : MaGuCo_10
- Track 39 : Tweety19_11, Snek_11
- Track 40 : Emotion_10
- Track 41 : FiveHead_10, Origami_10, JohnThicc_10, LadyAstra_10
- Track 42 : MiniMommy_9
- Track 43 : VroomVroom_10
- Track 44 : JasmineDragon_10, ShakeltOph_10
- Track 45 : Kalimba_11, Cappuccino_11, Donkey_11, Sabourin_11, Gambol_11, Sooty_11
- Track 46 : RockScotty_11, Mysterium_11, SpecialK_11, Halsey_11, Ashes_11, Beaupre_11, Stuu_11, Gumpizza_11, Giorgio_11, Moss_11
- Track 47 : Soondubu_10
- Track 48 : Exile_10
- Track 49 : AinMach_10
- Track 50 : Trine_9
- Track 51 : Applejacks_9
- Track 52 : Widow_9
- Track 53 : Morrissey_9
- Track 54 : Puppies_9
- Track 55 : Gustav_9
- Track 56 : Upyo_9
- Track 57 : Mahdia_9
- Track 58 : BackstagePass_10
- Track 59 : Eyes_10
- Track 60 : Doggs_10, Coriander_11, RayTheFireFly_11, Moonflower_11
- Track 61 : GEazy_10
- Track 62 : BBQValindra_10
- Track 63 : Kiko_11
- Track 64 : TaronosaurusRx_10
- Track 65 : Schnabeltier_10, MagicMan_10
- Track 66 : ZAYM_10
- Track 67 : HannahD_10, Bunker_10
- Track 68 : DirtyBoi_11, Hedwig_11
- Track 69 : Opie_10
- Track 70 : Dmitri_11
- Track 71 : Bowser_10
- Track 72 : Bock_15, Mulch_15, Nadeem_15, Brylie_15, Parada_15, NancyRae_15
- Track 73 : Chop_15, Ayotoya_15, GrandSlam_15, Hamood_15
- Track 74 : Francois_15
- Track 75 : WheatThin_15
- Track 76 : BetterKatz_15, Pimento_16
- Track 77 : DelRio_16
- Track 78 : Zodiariah_11
- Track 79 : Ruthy_12
- Track 80 : MakCheese_13
- Track 81 : ArchiDore_12
- Track 82 : Malibo_10
- Track 83 : DumpsterDude_12
- Track 84 : Sprinklemunch_11
- Track 85 : Tarzan_10, DonkeyMan_10
- Track 86 : Hibiscus_10, Jojo24_10
- Track 87 : Heinz_10

- Track 88 : Reyja_11
- Track 89 : Santhid_10
- Track 90 : Cen1621_9
- Track 91 : SuperHands_11, Forester_18, Percival_10, Gretchen_10
- Track 92 : Honk_9
- Track 93 : UtzChips_9, Barnstormer_9
- Track 94 : Floof_10
- Track 95 : IAmGroot_10
- Track 96 : Zeta1847_9
- Track 97 : Caron_9
- Track 98 : GardenState_10
- Track 99 : Mabodamaca_10
- Track 100 : SuMoo_9
- Track 101 : Rem711_16
- Track 102 : 32HC_17
- Track 103 : Elener_12

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

The start number called the most often in the published annotations is 39, it was called in 46 of the 139 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AEgle_11, AGrandiflora_11, Adumb2043_11, Amploria_11, Amyev_11, Asa16_11, Ascela_11, Berrie_11, Cassia_11, Community_12, Crewmate_12, Cyan_11, DrSierra_11, Elezi_11, Emotion_10, Eraser_11, FiveHead_10, Flutur_11, Iter_11, IttyBittyPiggy_11, Janeemi_12, JasmineDragon_10, Joemato_11, JohnDoe_11, JohnThicc_10, Jstan_11, JuneStar_11, Kaylissa_11, KeAlii_11, LadyAstra_10, Lego_11, Lizalica_11, London_11, MiniMommy_9, Mudpuppy_11, Niobe_11, Nitro_11, ObiToo_11, Origami_10, Phives_12, Pixelle_11, Powerpuff_11, Pumpkins_11, Reedo_11, Schaffner_11, ShakeltOph_10, Simpson_12, Skelbel_11, Subaru_11, Tallboi_11, Tbone_11, TforTroy_11, Tian_11, Tuck_12, Turab_11, Tutumahutu_11, VroomVroom_10, Warda_11, Wildwest_12, Yang_11, YesChef_11,

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

•

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

- 32HC_17, Adolin_11, AinMach_10, Applejacks_9, ArchiDore_12, Ashes_11, Ayotoya_15, BBQValindra_10, BackstagePass_10, Barnstormer_9, Beaupre_11, BetterKatz_15, Bock_15, Bowser_10, Brylie_15, Bunker_10, Cappuccino_11, Caron_9, Cen1621_9, Chop_15, Coriander_11, DelRio_16, DirtyBoi_11, Dmitri_11, Doggs_10, DonkeyMan_10, Donkey_11, DrManhattan_11, DumpsterDude_12, Elener_12, Exile_10, Eyes_10, Floof_10, Forester_18, Francois_15, GEazy_10, Gambol_11, GardenState_10, Giorgio_11, GrandSlam_15, Gretchen_10, Gumpizza_11, Gustav_9, Halsey_11, Hamood_15, HannahD_10, Hedwig_11, Heinz_10, Hibiscus_10, Honk_9, IAmGroot_10, IUFootball_10, IdentityCrisis_11, Jojo24_10, JustASigh_10, Kalimba_11, Kiko_11, Liebe_10, MaGuCo_10, Mabodamaca_10, MagicMan_10, Mahdia_9, MakCheese_13, Malibo_10, Maureen_10, MissSwiss_11, Moonflower_11, Morrissey_9, Moss_11, Mulch_15,

Mysterium_11, Nadeem_15, NancyRae_15, Opie_10, Parada_15, Percival_10, Pimento_16, Puppies_9, RayTheFireFly_11, Rem711_16, Reyja_11, RockScotty_11, Ruthy_12, Sabourin_11, Santhid_10, Schnabeltier_10, Snek_11, Soondubu_10, Sooty_11, SpecialK_11, Sprinklemunch_11, Stuu_11, SuMoo_9, Sue2_11, SuperHands_11, TaronosaurusRx_10, Tarzan_10, ThursdayNight_10, Trine_9, Tweety19_11, Upyo_9, UtzChips_9, VResidence_11, WST1_11, Weirdo19_11, WheatThin_15, Widow_9, ZAYM_10, Zeta1847_9, Zodiariah_11,

Summary by start number:

Start 28:

- Found in 1 of 171 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 139
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Upyo_9 (CD),

Start 29:

- Found in 7 of 171 (4.1%) of genes in pham
- Manual Annotations of this start: 6 of 139
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DonkeyMan_10 (DY), Heinz_10 (DY), Hibiscus_10 (DY), Jojo24_10 (DY), Reyja_11 (DY), Santhid_10 (DY), Tarzan_10 (DY),

Start 30:

- Found in 5 of 171 (2.9%) of genes in pham
- Manual Annotations of this start: 5 of 139
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gustav_9 (CD), Mahdia_9 (CD), Morrissey_9 (CD), Puppies_9 (CD), Widow_9 (CD),

Start 32:

- Found in 7 of 171 (4.1%) of genes in pham
- Manual Annotations of this start: 3 of 139
- Called 57.1% of time when present
- Phage (with cluster) where this start called: BackstagePass_10 (DB), Bunker_10 (DB), HannahD_10 (DB), Trine_9 (CD),

Start 33:

- Found in 17 of 171 (9.9%) of genes in pham
- Manual Annotations of this start: 3 of 139
- Called 17.6% of time when present
- Phage (with cluster) where this start called: Francois_15 (DI), IdentityCrisis_11 (AJ), WheatThin_15 (DI),

Start 34:

- Found in 1 of 171 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 139
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Elener_12 (singleton),

Start 35:

- Found in 21 of 171 (12.3%) of genes in pham

- Manual Annotations of this start: 17 of 139
- Called 90.5% of time when present
- Phage (with cluster) where this start called: ArchiDore_12 (DW), Ayotoya_15 (DI), BetterKatz_15 (DI), Bock_15 (DI), Brylie_15 (DI), Chop_15 (DI), DelRio_16 (DI), DumpsterDude_12 (DW), GrandSlam_15 (DI), Hamood_15 (DI), MakCheese_13 (DW), Mulch_15 (DI), Nadeem_15 (DI), NancyRae_15 (DI), Parada_15 (DI), Pimento_16 (DI), Ruthy_12 (DW), Sprinklemunch_11 (DW), Zodiariah_11 (DW),

Start 36:

- Found in 31 of 171 (18.1%) of genes in pham
- Manual Annotations of this start: 25 of 139
- Called 90.3% of time when present
- Phage (with cluster) where this start called: Adolin_11 (AZ1), BBQValindra_10 (DB), Barnstormer_9 (EH), Bowser_10 (DB), Caron_9 (EH), DirtyBoi_11 (DB), DrManhattan_11 (AZ1), Eyes_10 (DB), Floof_10 (EH), Forester_18 (EH), GEazy_10 (DB), GardenState_10 (EH), Gretchen_10 (EH), Hedwig_11 (DB), IAmGroot_10 (EH), Kiko_11 (DB), Mabodamaca_10 (EH), MagicMan_10 (DB), MissSwiss_11 (AZ1), Opie_10 (DB), Percival_10 (EH), Schnabeltier_10 (DB), SuMoo_9 (EH), Sue2_11 (AZ1), SuperHands_11 (EH), TaronosaurusRx_10 (DB), UtzChips_9 (EH), ZAYM_10 (DB),

Start 37:

- Found in 28 of 171 (16.4%) of genes in pham
- Manual Annotations of this start: 22 of 139
- Called 96.4% of time when present
- Phage (with cluster) where this start called: AinMach_10 (AZ7), Ashes_11 (AZ5), Beaupre_11 (AZ5), Cappuccino_11 (AZ5), Donkey_11 (AZ5), Exile_10 (AZ6), Gambol_11 (AZ5), Giorgio_11 (AZ5), Gumpizza_11 (AZ5), Halsey_11 (AZ5), IUFootball_10 (AZ2), Kalimba_11 (AZ5), Liebe_10 (AZ2), MaGuCo_10 (AZ2), Maureen_10 (AZ2), Moss_11 (AZ5), Mysterium_11 (AZ5), RockScotty_11 (AZ5), Sabourin_11 (AZ5), Snek_11 (AZ3), Soondubu_10 (AZ6), Sooty_11 (AZ5), SpecialK_11 (AZ5), Stuu_11 (AZ5), Tweety19_11 (AZ3), VResidence_11 (AZ1), WST1_11 (AJ),

Start 38:

- Found in 1 of 171 (0.6%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Applejacks_9 (CD),

Start 39:

- Found in 61 of 171 (35.7%) of genes in pham
- Manual Annotations of this start: 46 of 139
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AEgle_11 (AZ1), AGrandiflora_11 (AZ1), Adumb2043_11 (AZ1), Amploria_11 (AZ1), Amyev_11 (AZ1), Asa16_11 (AZ1), Ascela_11 (AZ1), Berrie_11 (AZ1), Cassia_11 (AZ1), Community_12 (AZ1), Crewmate_12 (AZ1), Cyan_11 (AZ1), DrSierra_11 (AZ1), Elezi_11 (AZ1), Emotion_10 (AZ4), Eraser_11 (AZ1), FiveHead_10 (AZ4), Flutur_11 (AZ), Iter_11 (AZ1), IttyBittyPiggy_11 (AZ1), Janeemi_12 (AZ1), JasmineDragon_10 (AZ4), Joemato_11 (AZ1), JohnDoe_11 (AZ1), JohnThicc_10 (AZ4), Jstan_11 (AZ1), JuneStar_11 (AZ1), Kaylissa_11 (AZ1), KeAlii_11 (AZ1), LadyAstra_10 (AZ4), Lego_11 (AZ1), Lizalica_11 (AZ1), London_11 (AZ1), MiniMommy_9 (AZ4),

Mudpuppy_11 (AZ1), Niobe_11 (AZ1), Nitro_11 (AZ1), ObiToo_11 (AZ1), Origami_10 (AZ4), Phives_12 (AZ1), Pixelle_11 (AZ1), Powerpuff_11 (AZ1), Pumpkins_11 (AZ1), Reedo_11 (AZ1), Schaffner_11 (AZ1), ShakeltOph_10 (AZ4), Simpson_12 (AZ1), Skelbel_11 (AZ1), Subaru_11 (AZ1), Tallboi_11 (AZ1), Tbone_11 (AZ1), TforTroy_11 (AZ1), Tian_11 (AZ1), Tuck_12 (AZ1), Turab_11 (AZ1), Tutumahutu_11 (AZ1), VroomVroom_10 (AZ4), Warda_11 (AZ1), Wildwest_12 (AZ1), Yang_11 (AZ1), YesChef_11 (AZ1),

Start 40:

- Found in 1 of 171 (0.6%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ThursdayNight_10 (AZ),

Start 42:

- Found in 9 of 171 (5.3%) of genes in pham
- Manual Annotations of this start: 8 of 139
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cen1621_9 (EH), Coriander_11 (DB), Dmitri_11 (DB), Doggs_10 (DB), Honk_9 (EH), Malibo_10 (DW), Moonflower_11 (DB), RayTheFireFly_11 (DB), Zeta1847_9 (EH),

Start 45:

- Found in 4 of 171 (2.3%) of genes in pham
- Manual Annotations of this start: 2 of 139
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 32HC_17 (Z), JustASigh_10 (AH), Rem711_16 (Z), Weirido19_11 (AH),

Summary by clusters:

There are 18 clusters represented in this pham: singleton, AZ, EH, DI, AH, Z, AJ, DB, CD, DW, DY, AZ1, AZ2, AZ3, AZ4, AZ5, AZ6, AZ7,

Info for manual annotations of cluster AH:

- Start number 45 was manually annotated 1 time for cluster AH.

Info for manual annotations of cluster AJ:

- Start number 33 was manually annotated 1 time for cluster AJ.

Info for manual annotations of cluster AZ1:

- Start number 36 was manually annotated 4 times for cluster AZ1.
- Start number 37 was manually annotated 1 time for cluster AZ1.
- Start number 39 was manually annotated 41 times for cluster AZ1.

Info for manual annotations of cluster AZ2:

- Start number 37 was manually annotated 3 times for cluster AZ2.

Info for manual annotations of cluster AZ3:

- Start number 37 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster AZ4:

- Start number 39 was manually annotated 5 times for cluster AZ4.

Info for manual annotations of cluster AZ5:

- Start number 37 was manually annotated 15 times for cluster AZ5.

Info for manual annotations of cluster AZ6:

- Start number 37 was manually annotated 1 time for cluster AZ6.

Info for manual annotations of cluster CD:

- Start number 28 was manually annotated 1 time for cluster CD.
- Start number 30 was manually annotated 5 times for cluster CD.
- Start number 32 was manually annotated 1 time for cluster CD.

Info for manual annotations of cluster DB:

- Start number 32 was manually annotated 2 times for cluster DB.
- Start number 36 was manually annotated 11 times for cluster DB.
- Start number 42 was manually annotated 4 times for cluster DB.

Info for manual annotations of cluster DI:

- Start number 33 was manually annotated 2 times for cluster DI.
- Start number 35 was manually annotated 13 times for cluster DI.

Info for manual annotations of cluster DW:

- Start number 35 was manually annotated 4 times for cluster DW.
- Start number 42 was manually annotated 1 time for cluster DW.

Info for manual annotations of cluster DY:

- Start number 29 was manually annotated 6 times for cluster DY.

Info for manual annotations of cluster EH:

- Start number 36 was manually annotated 10 times for cluster EH.
- Start number 42 was manually annotated 3 times for cluster EH.

Info for manual annotations of cluster Z:

- Start number 45 was manually annotated 1 time for cluster Z.

Gene Information:

Gene: 32HC_17 Start: 10805, Stop: 11047, Start Num: 45

Candidate Starts for 32HC_17:

(22, 10718), (Start: 45 @10805 has 2 MA's), (76, 10973),

Gene: AEgle_11 Start: 8744, Stop: 9049, Start Num: 39

Candidate Starts for AEgle_11:

(7, 8474), (Start: 39 @8744 has 46 MA's), (50, 8786), (58, 8849), (73, 8939),

Gene: AGrandiflora_11 Start: 8731, Stop: 9039, Start Num: 39

Candidate Starts for AGrandiflora_11:

(Start: 39 @8731 has 46 MA's), (50, 8773), (66, 8887),

Gene: Adolin_11 Start: 8716, Stop: 9024, Start Num: 36
Candidate Starts for Adolin_11:
(Start: 36 @8716 has 25 MA's), (52, 8779), (58, 8824), (73, 8914), (85, 9004),

Gene: Adumb2043_11 Start: 8743, Stop: 9048, Start Num: 39
Candidate Starts for Adumb2043_11:
(7, 8473), (Start: 39 @8743 has 46 MA's), (50, 8785), (58, 8848), (73, 8938),

Gene: AinMach_10 Start: 7842, Stop: 8153, Start Num: 37
Candidate Starts for AinMach_10:
(2, 7434), (16, 7746), (Start: 37 @7842 has 22 MA's), (46, 7863), (49, 7878), (50, 7887), (76, 8049),
(89, 8145),

Gene: Amploria_11 Start: 8743, Stop: 9048, Start Num: 39
Candidate Starts for Amploria_11:
(7, 8473), (Start: 39 @8743 has 46 MA's), (50, 8785), (58, 8848), (73, 8938),

Gene: Amyev_11 Start: 8759, Stop: 9064, Start Num: 39
Candidate Starts for Amyev_11:
(7, 8489), (Start: 39 @8759 has 46 MA's), (50, 8801), (59, 8876),

Gene: Applejacks_9 Start: 6830, Stop: 7105, Start Num: 38
Candidate Starts for Applejacks_9:
(14, 6725), (21, 6749), (25, 6794), (38, 6830), (68, 6971), (74, 7007), (75, 7010),

Gene: ArchiDore_12 Start: 8060, Stop: 8335, Start Num: 35
Candidate Starts for ArchiDore_12:
(Start: 35 @8060 has 17 MA's), (59, 8180), (67, 8210),

Gene: Asa16_11 Start: 8713, Stop: 9018, Start Num: 39
Candidate Starts for Asa16_11:
(7, 8443), (Start: 39 @8713 has 46 MA's), (50, 8755), (58, 8818), (66, 8869), (73, 8908),

Gene: Ascela_11 Start: 8748, Stop: 9053, Start Num: 39
Candidate Starts for Ascela_11:
(Start: 39 @8748 has 46 MA's), (50, 8790), (58, 8853),

Gene: Ashes_11 Start: 8267, Stop: 8554, Start Num: 37
Candidate Starts for Ashes_11:
(Start: 37 @8267 has 22 MA's), (65, 8417), (74, 8453), (76, 8459),

Gene: Ayotoya_15 Start: 9620, Stop: 9898, Start Num: 35
Candidate Starts for Ayotoya_15:
(Start: 33 @9617 has 3 MA's), (Start: 35 @9620 has 17 MA's), (58, 9731), (67, 9773), (70, 9791), (75, 9818),

Gene: BBQValindra_10 Start: 7210, Stop: 7500, Start Num: 36
Candidate Starts for BBQValindra_10:
(Start: 32 @7204 has 3 MA's), (Start: 36 @7210 has 25 MA's), (49, 7246), (57, 7306), (74, 7402), (79, 7432), (85, 7486),

Gene: BackstagePass_10 Start: 7181, Stop: 7477, Start Num: 32
Candidate Starts for BackstagePass_10:

(Start: 32 @7181 has 3 MA's), (Start: 36 @7187 has 25 MA's), (49, 7223), (57, 7283), (74, 7379), (79, 7409), (85, 7463),

Gene: Barnstormer_9 Start: 7938, Stop: 8219, Start Num: 36

Candidate Starts for Barnstormer_9:

(Start: 36 @7938 has 25 MA's), (60, 8052),

Gene: Beaupre_11 Start: 8268, Stop: 8555, Start Num: 37

Candidate Starts for Beaupre_11:

(Start: 37 @8268 has 22 MA's), (65, 8418), (74, 8454), (76, 8460),

Gene: Berrie_11 Start: 8715, Stop: 9020, Start Num: 39

Candidate Starts for Berrie_11:

(Start: 39 @8715 has 46 MA's), (50, 8757), (58, 8820), (59, 8832),

Gene: BetterKatz_15 Start: 9588, Stop: 9866, Start Num: 35

Candidate Starts for BetterKatz_15:

(6, 9243), (Start: 33 @9585 has 3 MA's), (Start: 35 @9588 has 17 MA's), (54, 9666), (58, 9699), (59, 9711), (67, 9741), (75, 9786), (79, 9801),

Gene: Bock_15 Start: 9338, Stop: 9616, Start Num: 35

Candidate Starts for Bock_15:

(Start: 33 @9335 has 3 MA's), (Start: 35 @9338 has 17 MA's), (54, 9416), (58, 9449), (59, 9461), (67, 9491), (75, 9536), (79, 9551),

Gene: Bowser_10 Start: 7208, Stop: 7498, Start Num: 36

Candidate Starts for Bowser_10:

(Start: 36 @7208 has 25 MA's), (51, 7256), (57, 7304), (67, 7358), (79, 7430),

Gene: Brylie_15 Start: 9335, Stop: 9613, Start Num: 35

Candidate Starts for Brylie_15:

(Start: 33 @9332 has 3 MA's), (Start: 35 @9335 has 17 MA's), (54, 9413), (58, 9446), (59, 9458), (67, 9488), (75, 9533), (79, 9548),

Gene: Bunker_10 Start: 7204, Stop: 7500, Start Num: 32

Candidate Starts for Bunker_10:

(Start: 32 @7204 has 3 MA's), (Start: 36 @7210 has 25 MA's), (49, 7246), (57, 7306), (79, 7432), (85, 7486),

Gene: Cappuccino_11 Start: 8176, Stop: 8463, Start Num: 37

Candidate Starts for Cappuccino_11:

(Start: 37 @8176 has 22 MA's), (57, 8272), (76, 8368),

Gene: Caron_9 Start: 7966, Stop: 8247, Start Num: 36

Candidate Starts for Caron_9:

(3, 7567), (9, 7708), (Start: 36 @7966 has 25 MA's), (52, 8023), (60, 8080),

Gene: Cassia_11 Start: 8837, Stop: 9139, Start Num: 39

Candidate Starts for Cassia_11:

(Start: 39 @8837 has 46 MA's), (50, 8879), (58, 8942), (66, 8993), (73, 9029),

Gene: Cen1621_9 Start: 7077, Stop: 7358, Start Num: 42

Candidate Starts for Cen1621_9:

(16, 6987), (Start: 42 @7077 has 8 MA's), (44, 7083), (54, 7143),

Gene: Chop_15 Start: 9368, Stop: 9646, Start Num: 35

Candidate Starts for Chop_15:

(Start: 33 @9365 has 3 MA's), (Start: 35 @9368 has 17 MA's), (58, 9479), (67, 9521), (70, 9539), (75, 9566),

Gene: Community_12 Start: 9794, Stop: 10099, Start Num: 39

Candidate Starts for Community_12:

(Start: 39 @9794 has 46 MA's), (50, 9836), (58, 9899), (59, 9911), (73, 9989),

Gene: Coriander_11 Start: 7607, Stop: 7876, Start Num: 42

Candidate Starts for Coriander_11:

(Start: 42 @7607 has 8 MA's), (54, 7673), (67, 7736), (68, 7742), (74, 7778), (77, 7796),

Gene: Crewmate_12 Start: 9180, Stop: 9488, Start Num: 39

Candidate Starts for Crewmate_12:

(Start: 39 @9180 has 46 MA's), (58, 9285), (59, 9297), (73, 9375),

Gene: Cyan_11 Start: 8735, Stop: 9040, Start Num: 39

Candidate Starts for Cyan_11:

(Start: 39 @8735 has 46 MA's), (50, 8777),

Gene: DelRio_16 Start: 9845, Stop: 10123, Start Num: 35

Candidate Starts for DelRio_16:

(6, 9500), (Start: 33 @9842 has 3 MA's), (Start: 35 @9845 has 17 MA's), (58, 9956), (67, 9998), (70, 10016), (75, 10043), (80, 10076), (81, 10079),

Gene: DirtyBoi_11 Start: 7580, Stop: 7870, Start Num: 36

Candidate Starts for DirtyBoi_11:

(Start: 36 @7580 has 25 MA's), (67, 7730),

Gene: Dmitri_11 Start: 7589, Stop: 7858, Start Num: 42

Candidate Starts for Dmitri_11:

(Start: 42 @7589 has 8 MA's), (49, 7616), (54, 7655), (59, 7688), (61, 7700), (68, 7724), (74, 7760), (77, 7778),

Gene: Doggs_10 Start: 7304, Stop: 7573, Start Num: 42

Candidate Starts for Doggs_10:

(Start: 42 @7304 has 8 MA's), (54, 7370), (67, 7433), (68, 7439), (74, 7475), (77, 7493),

Gene: Donkey_11 Start: 8176, Stop: 8463, Start Num: 37

Candidate Starts for Donkey_11:

(Start: 37 @8176 has 22 MA's), (57, 8272), (76, 8368),

Gene: DonkeyMan_10 Start: 7146, Stop: 7430, Start Num: 29

Candidate Starts for DonkeyMan_10:

(11, 6927), (24, 7095), (Start: 29 @7146 has 6 MA's), (52, 7209),

Gene: DrManhattan_11 Start: 8706, Stop: 9014, Start Num: 36

Candidate Starts for DrManhattan_11:

(Start: 36 @8706 has 25 MA's), (52, 8769), (54, 8781), (58, 8814), (73, 8904), (85, 8994),

Gene: DrSierra_11 Start: 8737, Stop: 9042, Start Num: 39

Candidate Starts for DrSierra_11:

(Start: 39 @8737 has 46 MA's), (50, 8779),

Gene: DumpsterDude_12 Start: 8073, Stop: 8348, Start Num: 35

Candidate Starts for DumpsterDude_12:

(12, 7845), (Start: 35 @8073 has 17 MA's), (54, 8148), (67, 8223),

Gene: Elener_12 Start: 9320, Stop: 9589, Start Num: 34

Candidate Starts for Elener_12:

(Start: 34 @9320 has 1 MA's), (46, 9341), (54, 9395), (70, 9464), (74, 9488), (76, 9494), (85, 9572),

Gene: Elezi_11 Start: 8714, Stop: 9019, Start Num: 39

Candidate Starts for Elezi_11:

(7, 8444), (Start: 39 @8714 has 46 MA's), (50, 8756), (58, 8819), (66, 8870), (73, 8909),

Gene: Emotion_10 Start: 7073, Stop: 7354, Start Num: 39

Candidate Starts for Emotion_10:

(Start: 39 @7073 has 46 MA's), (49, 7106), (50, 7115), (69, 7229), (74, 7256),

Gene: Eraser_11 Start: 8714, Stop: 9019, Start Num: 39

Candidate Starts for Eraser_11:

(7, 8444), (Start: 39 @8714 has 46 MA's), (50, 8756), (58, 8819), (66, 8870), (73, 8909),

Gene: Exile_10 Start: 8625, Stop: 8930, Start Num: 37

Candidate Starts for Exile_10:

(Start: 37 @8625 has 22 MA's), (49, 8661), (50, 8670), (62, 8763), (76, 8835),

Gene: Eyes_10 Start: 7217, Stop: 7507, Start Num: 36

Candidate Starts for Eyes_10:

(Start: 36 @7217 has 25 MA's), (51, 7265), (57, 7313), (67, 7367), (74, 7409), (79, 7439), (85, 7493),

Gene: FiveHead_10 Start: 7008, Stop: 7286, Start Num: 39

Candidate Starts for FiveHead_10:

(Start: 39 @7008 has 46 MA's), (49, 7041), (50, 7050),

Gene: Floof_10 Start: 7504, Stop: 7794, Start Num: 36

Candidate Starts for Floof_10:

(20, 7414), (Start: 36 @7504 has 25 MA's), (57, 7600), (59, 7624), (74, 7693),

Gene: Flutur_11 Start: 8734, Stop: 9042, Start Num: 39

Candidate Starts for Flutur_11:

(Start: 39 @8734 has 46 MA's), (50, 8776),

Gene: Forester_18 Start: 9056, Stop: 9346, Start Num: 36

Candidate Starts for Forester_18:

(Start: 36 @9056 has 25 MA's), (54, 9131), (57, 9152), (74, 9245),

Gene: Francois_15 Start: 9346, Stop: 9627, Start Num: 33

Candidate Starts for Francois_15:

(Start: 33 @9346 has 3 MA's), (Start: 35 @9349 has 17 MA's), (58, 9460), (67, 9502), (75, 9547), (79, 9562), (84, 9610),

Gene: GEazy_10 Start: 7219, Stop: 7509, Start Num: 36

Candidate Starts for GEazy_10:

(Start: 32 @7213 has 3 MA's), (Start: 36 @7219 has 25 MA's), (49, 7255), (57, 7315), (79, 7441), (85, 7495),

Gene: Gambol_11 Start: 8176, Stop: 8463, Start Num: 37

Candidate Starts for Gambol_11:

(Start: 37 @8176 has 22 MA's), (57, 8272), (76, 8368),

Gene: GardenState_10 Start: 8171, Stop: 8461, Start Num: 36

Candidate Starts for GardenState_10:

(Start: 36 @8171 has 25 MA's), (57, 8264),

Gene: Giorgio_11 Start: 8269, Stop: 8556, Start Num: 37

Candidate Starts for Giorgio_11:

(Start: 37 @8269 has 22 MA's), (65, 8419), (74, 8455), (76, 8461),

Gene: GrandSlam_15 Start: 9368, Stop: 9646, Start Num: 35

Candidate Starts for GrandSlam_15:

(Start: 33 @9365 has 3 MA's), (Start: 35 @9368 has 17 MA's), (58, 9479), (67, 9521), (70, 9539), (75, 9566),

Gene: Gretchen_10 Start: 9050, Stop: 9340, Start Num: 36

Candidate Starts for Gretchen_10:

(Start: 36 @9050 has 25 MA's), (54, 9125), (57, 9146), (74, 9239),

Gene: Gumpizza_11 Start: 8268, Stop: 8555, Start Num: 37

Candidate Starts for Gumpizza_11:

(Start: 37 @8268 has 22 MA's), (65, 8418), (74, 8454), (76, 8460),

Gene: Gustav_9 Start: 6894, Stop: 7172, Start Num: 30

Candidate Starts for Gustav_9:

(Start: 30 @6894 has 5 MA's), (49, 6930), (57, 6987), (62, 7020), (67, 7032), (68, 7038), (75, 7077), (81, 7125),

Gene: Halsey_11 Start: 8267, Stop: 8554, Start Num: 37

Candidate Starts for Halsey_11:

(Start: 37 @8267 has 22 MA's), (65, 8417), (74, 8453), (76, 8459),

Gene: Hamood_15 Start: 9368, Stop: 9646, Start Num: 35

Candidate Starts for Hamood_15:

(Start: 33 @9365 has 3 MA's), (Start: 35 @9368 has 17 MA's), (58, 9479), (67, 9521), (70, 9539), (75, 9566),

Gene: HannahD_10 Start: 7213, Stop: 7509, Start Num: 32

Candidate Starts for HannahD_10:

(Start: 32 @7213 has 3 MA's), (Start: 36 @7219 has 25 MA's), (49, 7255), (57, 7315), (79, 7441), (85, 7495),

Gene: Hedwig_11 Start: 7580, Stop: 7870, Start Num: 36

Candidate Starts for Hedwig_11:

(Start: 36 @7580 has 25 MA's), (67, 7730),

Gene: Heinz_10 Start: 7185, Stop: 7466, Start Num: 29
Candidate Starts for Heinz_10:
(2, 6783), (11, 6966), (24, 7134), (Start: 29 @7185 has 6 MA's), (51, 7233), (54, 7260),

Gene: Hibiscus_10 Start: 7156, Stop: 7443, Start Num: 29
Candidate Starts for Hibiscus_10:
(11, 6937), (24, 7105), (Start: 29 @7156 has 6 MA's), (54, 7234),

Gene: Honk_9 Start: 7045, Stop: 7326, Start Num: 42
Candidate Starts for Honk_9:
(7, 6799), (16, 6955), (Start: 42 @7045 has 8 MA's), (49, 7072), (54, 7111),

Gene: IAmGroot_10 Start: 8815, Stop: 9105, Start Num: 36
Candidate Starts for IAmGroot_10:
(Start: 36 @8815 has 25 MA's), (57, 8908),

Gene: IUFootball_10 Start: 7184, Stop: 7495, Start Num: 37
Candidate Starts for IUFootball_10:
(Start: 37 @7184 has 22 MA's), (58, 7289), (78, 7412),

Gene: IdentityCrisis_11 Start: 8164, Stop: 8412, Start Num: 33
Candidate Starts for IdentityCrisis_11:
(Start: 33 @8164 has 3 MA's), (Start: 37 @8170 has 22 MA's), (67, 8281), (87, 8398),

Gene: Iter_11 Start: 8748, Stop: 9053, Start Num: 39
Candidate Starts for Iter_11:
(Start: 39 @8748 has 46 MA's), (50, 8790), (58, 8853),

Gene: IttyBittyPiggy_11 Start: 8739, Stop: 9041, Start Num: 39
Candidate Starts for IttyBittyPiggy_11:
(Start: 39 @8739 has 46 MA's), (50, 8781), (58, 8844), (73, 8931),

Gene: Janeemi_12 Start: 9825, Stop: 10130, Start Num: 39
Candidate Starts for Janeemi_12:
(Start: 39 @9825 has 46 MA's), (50, 9867), (58, 9930), (59, 9942), (66, 9981), (73, 10020),

Gene: JasmineDragon_10 Start: 7008, Stop: 7289, Start Num: 39
Candidate Starts for JasmineDragon_10:
(Start: 39 @7008 has 46 MA's), (49, 7041), (50, 7050), (69, 7164), (82, 7245),

Gene: Joemato_11 Start: 8735, Stop: 9040, Start Num: 39
Candidate Starts for Joemato_11:
(Start: 39 @8735 has 46 MA's), (50, 8777),

Gene: JohnDoe_11 Start: 8733, Stop: 9038, Start Num: 39
Candidate Starts for JohnDoe_11:
(Start: 39 @8733 has 46 MA's), (50, 8775),

Gene: JohnThicc_10 Start: 7008, Stop: 7286, Start Num: 39
Candidate Starts for JohnThicc_10:
(Start: 39 @7008 has 46 MA's), (49, 7041), (50, 7050),

Gene: Jojo24_10 Start: 7151, Stop: 7438, Start Num: 29

Candidate Starts for Jojo24_10:

(11, 6932), (24, 7100), (Start: 29 @7151 has 6 MA's), (54, 7229),

Gene: Jstan_11 Start: 8714, Stop: 9019, Start Num: 39

Candidate Starts for Jstan_11:

(7, 8444), (Start: 39 @8714 has 46 MA's), (50, 8756), (58, 8819), (66, 8870), (73, 8909),

Gene: JuneStar_11 Start: 8833, Stop: 9135, Start Num: 39

Candidate Starts for JuneStar_11:

(Start: 39 @8833 has 46 MA's), (50, 8875), (58, 8938), (66, 8989), (73, 9025),

Gene: JustASigh_10 Start: 8248, Stop: 8499, Start Num: 45

Candidate Starts for JustASigh_10:

(22, 8155), (26, 8188), (Start: 45 @8248 has 2 MA's), (48, 8263), (72, 8410), (74, 8419), (75, 8422),

Gene: Kalimba_11 Start: 8176, Stop: 8463, Start Num: 37

Candidate Starts for Kalimba_11:

(Start: 37 @8176 has 22 MA's), (57, 8272), (76, 8368),

Gene: Kaylissa_11 Start: 8736, Stop: 9041, Start Num: 39

Candidate Starts for Kaylissa_11:

(Start: 39 @8736 has 46 MA's), (50, 8778),

Gene: KeAlii_11 Start: 8765, Stop: 9073, Start Num: 39

Candidate Starts for KeAlii_11:

(Start: 39 @8765 has 46 MA's), (49, 8798), (50, 8807), (78, 8993), (85, 9053),

Gene: Kiko_11 Start: 7416, Stop: 7706, Start Num: 36

Candidate Starts for Kiko_11:

(10, 7176), (Start: 32 @7410 has 3 MA's), (Start: 36 @7416 has 25 MA's), (59, 7536), (74, 7608),

Gene: LadyAstra_10 Start: 7008, Stop: 7286, Start Num: 39

Candidate Starts for LadyAstra_10:

(Start: 39 @7008 has 46 MA's), (49, 7041), (50, 7050),

Gene: Lego_11 Start: 8734, Stop: 9042, Start Num: 39

Candidate Starts for Lego_11:

(Start: 39 @8734 has 46 MA's), (50, 8776), (52, 8794),

Gene: Liebe_10 Start: 7184, Stop: 7495, Start Num: 37

Candidate Starts for Liebe_10:

(Start: 37 @7184 has 22 MA's), (58, 7289), (78, 7412),

Gene: Lizalica_11 Start: 8720, Stop: 9028, Start Num: 39

Candidate Starts for Lizalica_11:

(7, 8450), (Start: 39 @8720 has 46 MA's), (50, 8762),

Gene: London_11 Start: 8714, Stop: 9019, Start Num: 39

Candidate Starts for London_11:

(7, 8444), (Start: 39 @8714 has 46 MA's), (50, 8756), (58, 8819), (66, 8870), (73, 8909),

Gene: MaGuCo_10 Start: 7043, Stop: 7435, Start Num: 37

Candidate Starts for MaGuCo_10:

(Start: 37 @7043 has 22 MA's), (41, 7049), (57, 7136), (58, 7148), (78, 7271),

Gene: Mabodamaca_10 Start: 8271, Stop: 8558, Start Num: 36

Candidate Starts for Mabodamaca_10:

(Start: 36 @8271 has 25 MA's), (82, 8505), (85, 8535),

Gene: MagicMan_10 Start: 7547, Stop: 7837, Start Num: 36

Candidate Starts for MagicMan_10:

(Start: 36 @7547 has 25 MA's), (51, 7595), (57, 7643), (67, 7697), (79, 7769), (85, 7823),

Gene: Mahdia_9 Start: 6893, Stop: 7174, Start Num: 30

Candidate Starts for Mahdia_9:

(Start: 30 @6893 has 5 MA's), (49, 6932), (67, 7034), (68, 7040), (75, 7079),

Gene: MakCheese_13 Start: 7880, Stop: 8155, Start Num: 35

Candidate Starts for MakCheese_13:

(12, 7652), (Start: 35 @7880 has 17 MA's), (53, 7952), (63, 8027), (75, 8075), (76, 8078),

Gene: Malibo_10 Start: 7477, Stop: 7743, Start Num: 42

Candidate Starts for Malibo_10:

(Start: 42 @7477 has 8 MA's), (53, 7537), (59, 7573), (67, 7603), (68, 7609), (74, 7645), (78, 7669), (85, 7729),

Gene: Maureen_10 Start: 7184, Stop: 7495, Start Num: 37

Candidate Starts for Maureen_10:

(Start: 37 @7184 has 22 MA's), (58, 7289), (78, 7412),

Gene: MiniMommy_9 Start: 7008, Stop: 7289, Start Num: 39

Candidate Starts for MiniMommy_9:

(Start: 39 @7008 has 46 MA's), (49, 7041), (69, 7164), (82, 7245),

Gene: MissSwiss_11 Start: 8710, Stop: 9018, Start Num: 36

Candidate Starts for MissSwiss_11:

(Start: 36 @8710 has 25 MA's), (52, 8773), (69, 8890), (73, 8908), (85, 8998),

Gene: Moonflower_11 Start: 7612, Stop: 7881, Start Num: 42

Candidate Starts for Moonflower_11:

(Start: 42 @7612 has 8 MA's), (54, 7678), (67, 7741), (68, 7747), (74, 7783), (77, 7801),

Gene: Morrissey_9 Start: 6870, Stop: 7154, Start Num: 30

Candidate Starts for Morrissey_9:

(Start: 30 @6870 has 5 MA's), (49, 6909), (53, 6942), (57, 6966), (67, 7014), (75, 7059),

Gene: Moss_11 Start: 8267, Stop: 8554, Start Num: 37

Candidate Starts for Moss_11:

(Start: 37 @8267 has 22 MA's), (65, 8417), (74, 8453), (76, 8459),

Gene: Mudpuppy_11 Start: 8734, Stop: 9042, Start Num: 39

Candidate Starts for Mudpuppy_11:

(Start: 39 @8734 has 46 MA's), (50, 8776), (52, 8794), (66, 8890),

Gene: Mulch_15 Start: 9335, Stop: 9613, Start Num: 35

Candidate Starts for Mulch_15:

(Start: 33 @9332 has 3 MA's), (Start: 35 @9335 has 17 MA's), (54, 9413), (58, 9446), (59, 9458), (67, 9488), (75, 9533), (79, 9548),

Gene: Mysterium_11 Start: 8268, Stop: 8555, Start Num: 37

Candidate Starts for Mysterium_11:

(Start: 37 @8268 has 22 MA's), (65, 8418), (74, 8454), (76, 8460),

Gene: Nadeem_15 Start: 9335, Stop: 9613, Start Num: 35

Candidate Starts for Nadeem_15:

(Start: 33 @9332 has 3 MA's), (Start: 35 @9335 has 17 MA's), (54, 9413), (58, 9446), (59, 9458), (67, 9488), (75, 9533), (79, 9548),

Gene: NancyRae_15 Start: 9335, Stop: 9613, Start Num: 35

Candidate Starts for NancyRae_15:

(Start: 33 @9332 has 3 MA's), (Start: 35 @9335 has 17 MA's), (54, 9413), (58, 9446), (59, 9458), (67, 9488), (75, 9533), (79, 9548),

Gene: Niobe_11 Start: 8714, Stop: 9019, Start Num: 39

Candidate Starts for Niobe_11:

(7, 8444), (Start: 39 @8714 has 46 MA's), (50, 8756), (58, 8819), (66, 8870), (73, 8909),

Gene: Nitro_11 Start: 8737, Stop: 9042, Start Num: 39

Candidate Starts for Nitro_11:

(7, 8461), (Start: 39 @8737 has 46 MA's), (50, 8779), (52, 8797), (58, 8842), (73, 8932),

Gene: ObiToo_11 Start: 8917, Stop: 9225, Start Num: 39

Candidate Starts for ObiToo_11:

(Start: 39 @8917 has 46 MA's), (58, 9022), (59, 9034), (73, 9112),

Gene: Opie_10 Start: 7562, Stop: 7852, Start Num: 36

Candidate Starts for Opie_10:

(Start: 36 @7562 has 25 MA's), (49, 7598), (57, 7658), (74, 7754), (81, 7805),

Gene: Origami_10 Start: 7008, Stop: 7286, Start Num: 39

Candidate Starts for Origami_10:

(Start: 39 @7008 has 46 MA's), (49, 7041), (50, 7050),

Gene: Parada_15 Start: 9335, Stop: 9613, Start Num: 35

Candidate Starts for Parada_15:

(Start: 33 @9332 has 3 MA's), (Start: 35 @9335 has 17 MA's), (54, 9413), (58, 9446), (59, 9458), (67, 9488), (75, 9533), (79, 9548),

Gene: Percival_10 Start: 8884, Stop: 9174, Start Num: 36

Candidate Starts for Percival_10:

(Start: 36 @8884 has 25 MA's), (54, 8959), (57, 8980), (74, 9073),

Gene: Phives_12 Start: 9819, Stop: 10124, Start Num: 39

Candidate Starts for Phives_12:

(7, 9549), (Start: 39 @9819 has 46 MA's), (50, 9861), (59, 9936),

Gene: Pimento_16 Start: 9539, Stop: 9817, Start Num: 35

Candidate Starts for Pimento_16:

(6, 9194), (Start: 33 @9536 has 3 MA's), (Start: 35 @9539 has 17 MA's), (54, 9617), (58, 9650), (59, 9662), (67, 9692), (75, 9737), (79, 9752),

Gene: Pixelle_11 Start: 8762, Stop: 9067, Start Num: 39

Candidate Starts for Pixelle_11:

(7, 8492), (Start: 39 @8762 has 46 MA's), (50, 8804), (59, 8879),

Gene: Powerpuff_11 Start: 8785, Stop: 9093, Start Num: 39

Candidate Starts for Powerpuff_11:

(Start: 39 @8785 has 46 MA's), (50, 8827), (66, 8941),

Gene: Pumpkins_11 Start: 8839, Stop: 9144, Start Num: 39

Candidate Starts for Pumpkins_11:

(Start: 39 @8839 has 46 MA's), (50, 8881), (58, 8944), (73, 9034),

Gene: Puppies_9 Start: 6807, Stop: 7094, Start Num: 30

Candidate Starts for Puppies_9:

(18, 6720), (27, 6783), (Start: 30 @6807 has 5 MA's), (57, 6909), (67, 6954), (68, 6960), (75, 6999), (81, 7047), (85, 7080),

Gene: RayTheFireFly_11 Start: 7613, Stop: 7882, Start Num: 42

Candidate Starts for RayTheFireFly_11:

(Start: 42 @7613 has 8 MA's), (54, 7679), (67, 7742), (68, 7748), (74, 7784), (77, 7802),

Gene: Reedo_11 Start: 8786, Stop: 9091, Start Num: 39

Candidate Starts for Reedo_11:

(Start: 39 @8786 has 46 MA's), (50, 8828), (55, 8861), (85, 9071),

Gene: Rem711_16 Start: 10853, Stop: 11095, Start Num: 45

Candidate Starts for Rem711_16:

(22, 10766), (Start: 45 @10853 has 2 MA's), (56, 10904), (76, 11021),

Gene: Reyja_11 Start: 7295, Stop: 7579, Start Num: 29

Candidate Starts for Reyja_11:

(24, 7244), (Start: 29 @7295 has 6 MA's), (54, 7370),

Gene: RockScotty_11 Start: 8267, Stop: 8554, Start Num: 37

Candidate Starts for RockScotty_11:

(Start: 37 @8267 has 22 MA's), (65, 8417), (74, 8453), (76, 8459),

Gene: Ruthy_12 Start: 8144, Stop: 8419, Start Num: 35

Candidate Starts for Ruthy_12:

(12, 7916), (Start: 35 @8144 has 17 MA's), (54, 8219), (75, 8339),

Gene: Sabourin_11 Start: 8176, Stop: 8463, Start Num: 37

Candidate Starts for Sabourin_11:

(Start: 37 @8176 has 22 MA's), (57, 8272), (76, 8368),

Gene: Santhid_10 Start: 7160, Stop: 7447, Start Num: 29

Candidate Starts for Santhid_10:

(24, 7109), (Start: 29 @7160 has 6 MA's), (54, 7238),

Gene: Schaffner_11 Start: 8830, Stop: 9132, Start Num: 39

Candidate Starts for Schaffner_11:

(Start: 39 @8830 has 46 MA's), (50, 8872), (58, 8935), (66, 8986), (73, 9022),

Gene: Schnabeltier_10 Start: 7548, Stop: 7838, Start Num: 36

Candidate Starts for Schnabeltier_10:

(Start: 36 @7548 has 25 MA's), (51, 7596), (57, 7644), (67, 7698), (79, 7770), (85, 7824),

Gene: ShakeltOph_10 Start: 7008, Stop: 7289, Start Num: 39

Candidate Starts for ShakeltOph_10:

(Start: 39 @7008 has 46 MA's), (49, 7041), (50, 7050), (69, 7164), (82, 7245),

Gene: Simpson_12 Start: 8735, Stop: 9040, Start Num: 39

Candidate Starts for Simpson_12:

(Start: 39 @8735 has 46 MA's), (50, 8777),

Gene: Skelbel_11 Start: 8714, Stop: 9019, Start Num: 39

Candidate Starts for Skelbel_11:

(7, 8444), (Start: 39 @8714 has 46 MA's), (50, 8756), (58, 8819), (66, 8870), (73, 8909),

Gene: Snek_11 Start: 7822, Stop: 8127, Start Num: 37

Candidate Starts for Snek_11:

(Start: 37 @7822 has 22 MA's), (50, 7861), (64, 7972), (82, 8077), (85, 8107),

Gene: Soondubu_10 Start: 8626, Stop: 8931, Start Num: 37

Candidate Starts for Soondubu_10:

(Start: 37 @8626 has 22 MA's), (49, 8662), (50, 8671), (69, 8806), (76, 8836),

Gene: Sooty_11 Start: 8177, Stop: 8464, Start Num: 37

Candidate Starts for Sooty_11:

(Start: 37 @8177 has 22 MA's), (57, 8273), (76, 8369),

Gene: SpecialK_11 Start: 8174, Stop: 8461, Start Num: 37

Candidate Starts for SpecialK_11:

(Start: 37 @8174 has 22 MA's), (65, 8324), (74, 8360), (76, 8366),

Gene: Sprinklemunch_11 Start: 7920, Stop: 8195, Start Num: 35

Candidate Starts for Sprinklemunch_11:

(12, 7692), (Start: 35 @7920 has 17 MA's), (63, 8067), (75, 8115), (76, 8118),

Gene: Stuu_11 Start: 8267, Stop: 8554, Start Num: 37

Candidate Starts for Stuu_11:

(Start: 37 @8267 has 22 MA's), (65, 8417), (74, 8453), (76, 8459),

Gene: SuMoo_9 Start: 7231, Stop: 7518, Start Num: 36

Candidate Starts for SuMoo_9:

(Start: 36 @7231 has 25 MA's), (82, 7465), (85, 7495),

Gene: Subaru_11 Start: 8714, Stop: 9019, Start Num: 39

Candidate Starts for Subaru_11:

(7, 8444), (Start: 39 @8714 has 46 MA's), (50, 8756), (58, 8819), (66, 8870), (73, 8909),

Gene: Sue2_11 Start: 8727, Stop: 9035, Start Num: 36

Candidate Starts for Sue2_11:

(Start: 36 @8727 has 25 MA's), (50, 8772), (78, 8958),

Gene: SuperHands_11 Start: 9056, Stop: 9346, Start Num: 36

Candidate Starts for SuperHands_11:

(Start: 36 @9056 has 25 MA's), (54, 9131), (57, 9152), (74, 9245),

Gene: Tallboi_11 Start: 8748, Stop: 9050, Start Num: 39

Candidate Starts for Tallboi_11:

(7, 8478), (Start: 39 @8748 has 46 MA's), (50, 8790), (58, 8853), (66, 8904),

Gene: TaronosaurusRx_10 Start: 7561, Stop: 7851, Start Num: 36

Candidate Starts for TaronosaurusRx_10:

(Start: 36 @7561 has 25 MA's), (49, 7597), (57, 7657), (67, 7711), (79, 7783), (81, 7804),

Gene: Tarzan_10 Start: 7151, Stop: 7435, Start Num: 29

Candidate Starts for Tarzan_10:

(11, 6932), (24, 7100), (Start: 29 @7151 has 6 MA's), (52, 7214),

Gene: Tbone_11 Start: 8728, Stop: 9036, Start Num: 39

Candidate Starts for Tbone_11:

(Start: 39 @8728 has 46 MA's), (50, 8770), (52, 8788), (58, 8833), (66, 8884),

Gene: TforTroy_11 Start: 8862, Stop: 9164, Start Num: 39

Candidate Starts for TforTroy_11:

(Start: 39 @8862 has 46 MA's), (50, 8904), (58, 8967), (66, 9018), (73, 9054),

Gene: ThursdayNight_10 Start: 7234, Stop: 7530, Start Num: 40

Candidate Starts for ThursdayNight_10:

(40, 7234), (85, 7516),

Gene: Tian_11 Start: 8759, Stop: 9064, Start Num: 39

Candidate Starts for Tian_11:

(7, 8489), (Start: 39 @8759 has 46 MA's), (50, 8801), (59, 8876),

Gene: Trine_9 Start: 6815, Stop: 7090, Start Num: 32

Candidate Starts for Trine_9:

(8, 6551), (13, 6641), (15, 6716), (19, 6728), (Start: 32 @6815 has 3 MA's), (57, 6911), (68, 6956), (75, 6995), (76, 6998),

Gene: Tuck_12 Start: 9774, Stop: 10079, Start Num: 39

Candidate Starts for Tuck_12:

(Start: 39 @9774 has 46 MA's), (50, 9816), (58, 9879), (59, 9891), (73, 9969),

Gene: Turab_11 Start: 8743, Stop: 9048, Start Num: 39

Candidate Starts for Turab_11:

(7, 8473), (Start: 39 @8743 has 46 MA's), (50, 8785), (58, 8848), (73, 8938),

Gene: Tutumahutu_11 Start: 8785, Stop: 9093, Start Num: 39

Candidate Starts for Tutumahutu_11:

(Start: 39 @8785 has 46 MA's), (50, 8827), (66, 8941),

Gene: Tweety19_11 Start: 7821, Stop: 8126, Start Num: 37

Candidate Starts for Tweety19_11:

(Start: 37 @7821 has 22 MA's), (50, 7860), (64, 7971), (82, 8076), (85, 8106),

Gene: Upyo_9 Start: 6827, Stop: 7114, Start Num: 28

Candidate Starts for Upyo_9:

(1, 6347), (4, 6449), (5, 6473), (18, 6746), (23, 6767), (Start: 28 @6827 has 1 MA's), (31, 6833), (43, 6854), (68, 6980), (74, 7016), (75, 7019), (83, 7088), (85, 7100), (86, 7103),

Gene: UtzChips_9 Start: 7926, Stop: 8207, Start Num: 36

Candidate Starts for UtzChips_9:

(Start: 36 @7926 has 25 MA's), (60, 8040),

Gene: VResidence_11 Start: 8797, Stop: 9105, Start Num: 37

Candidate Starts for VResidence_11:

(7, 8530), (16, 8698), (Start: 37 @8797 has 22 MA's), (85, 9088),

Gene: VroomVroom_10 Start: 7020, Stop: 7301, Start Num: 39

Candidate Starts for VroomVroom_10:

(Start: 39 @7020 has 46 MA's), (49, 7053), (50, 7062), (52, 7080), (69, 7176),

Gene: WST1_11 Start: 8173, Stop: 8415, Start Num: 37

Candidate Starts for WST1_11:

(Start: 33 @8167 has 3 MA's), (Start: 37 @8173 has 22 MA's), (67, 8284), (87, 8401),

Gene: Warda_11 Start: 8731, Stop: 9039, Start Num: 39

Candidate Starts for Warda_11:

(Start: 39 @8731 has 46 MA's), (50, 8773), (52, 8791), (66, 8887),

Gene: Weirdo19_11 Start: 8017, Stop: 8271, Start Num: 45

Candidate Starts for Weirdo19_11:

(17, 7900), (22, 7924), (26, 7957), (Start: 45 @8017 has 2 MA's), (48, 8035), (71, 8179),

Gene: WheatThin_15 Start: 9332, Stop: 9613, Start Num: 33

Candidate Starts for WheatThin_15:

(Start: 33 @9332 has 3 MA's), (Start: 35 @9335 has 17 MA's), (54, 9413), (58, 9446), (59, 9458), (67, 9488), (75, 9533), (79, 9548),

Gene: Widow_9 Start: 6798, Stop: 7085, Start Num: 30

Candidate Starts for Widow_9:

(27, 6774), (Start: 30 @6798 has 5 MA's), (57, 6900), (67, 6945), (68, 6951), (75, 6990), (81, 7038), (85, 7071),

Gene: Wildwest_12 Start: 9644, Stop: 9949, Start Num: 39

Candidate Starts for Wildwest_12:

(Start: 39 @9644 has 46 MA's), (47, 9668), (50, 9686), (85, 9929), (88, 9938),

Gene: Yang_11 Start: 8832, Stop: 9134, Start Num: 39

Candidate Starts for Yang_11:

(Start: 39 @8832 has 46 MA's), (50, 8874), (58, 8937), (66, 8988), (73, 9024),

Gene: YesChef_11 Start: 8785, Stop: 9093, Start Num: 39

Candidate Starts for YesChef_11:

(Start: 39 @8785 has 46 MA's), (50, 8827), (66, 8941),

Gene: ZAYM_10 Start: 7554, Stop: 7844, Start Num: 36

Candidate Starts for ZAYM_10:

(Start: 36 @7554 has 25 MA's), (57, 7650), (67, 7704), (79, 7776), (81, 7797), (85, 7830),

Gene: Zeta1847_9 Start: 7022, Stop: 7303, Start Num: 42

Candidate Starts for Zeta1847_9:

(16, 6935), (Start: 42 @7022 has 8 MA's), (49, 7049),

Gene: Zodiariah_11 Start: 7870, Stop: 8145, Start Num: 35

Candidate Starts for Zodiariah_11:

(Start: 35 @7870 has 17 MA's), (63, 8017), (67, 8020), (75, 8065), (76, 8068),