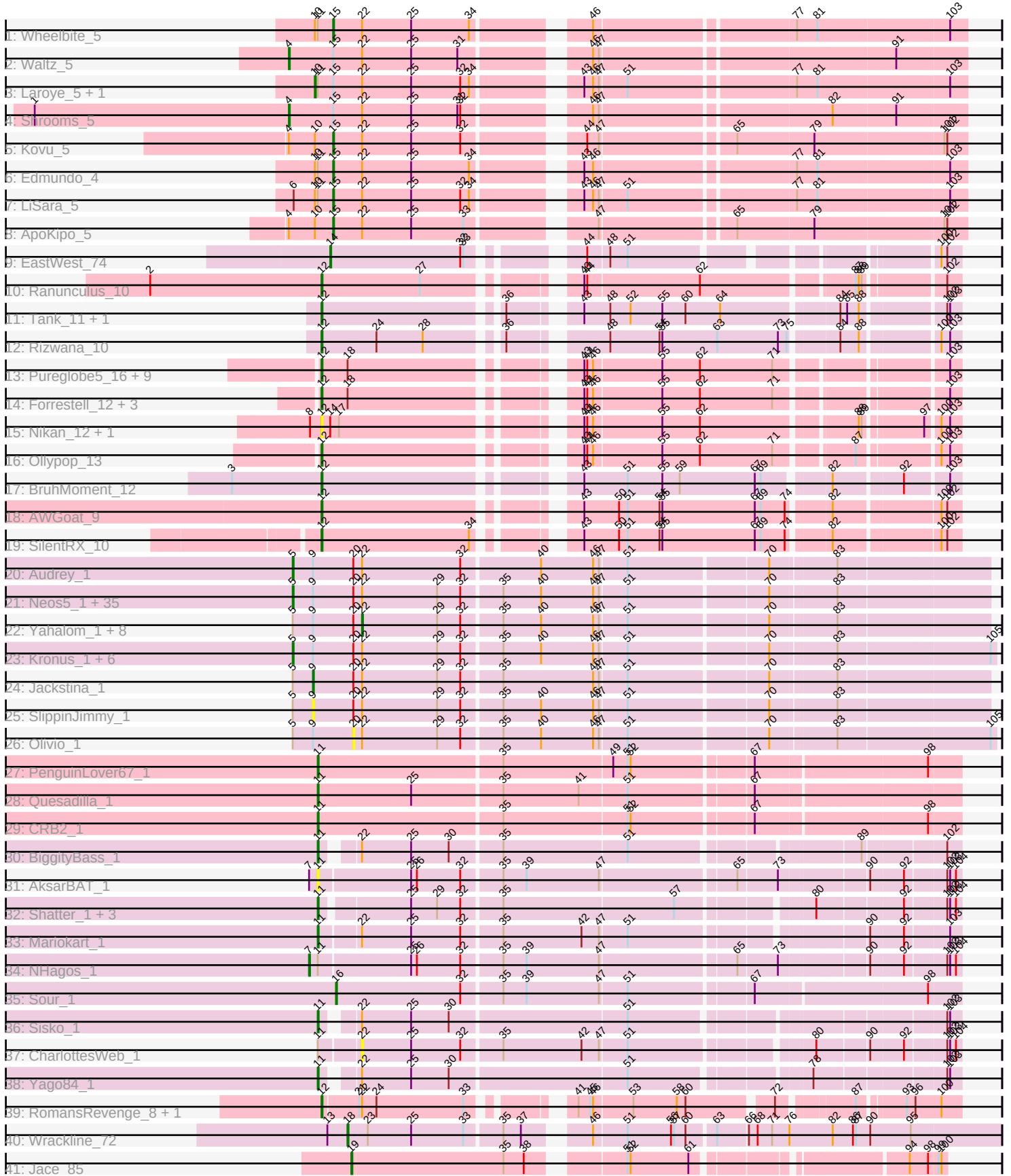


Pham 280262



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 280262 Report

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

Pham number 280262 has 109 members, 16 are drafts.

Phages represented in each track:

- Track 1 : Wheelbite_5
- Track 2 : Waltz_5
- Track 3 : Laroye_5, Salgado_5
- Track 4 : Shrooms_5
- Track 5 : Kovu_5
- Track 6 : Edmundo_4
- Track 7 : LiSara_5
- Track 8 : ApoKipo_5
- Track 9 : EastWest_74
- Track 10 : Ranunculus_10
- Track 11 : Tank_11, Wilde_11
- Track 12 : Rizwana_10
- Track 13 : Pureglobe5_16, Popstraw_13, PhuzzTulsa_12, Kubulix_15, DogYard_14, Hive_13, Odyssey395_16, Beagle_15, Pointis_14, BetaFish_14
- Track 14 : Forrestell_12, NyleyClemson_12, MellowYellow_12, RazzB_11
- Track 15 : Nikan_12, Ren19_10
- Track 16 : Ollypop_13
- Track 17 : BruhMoment_12
- Track 18 : AWGoat_9
- Track 19 : SilentRX_10
- Track 20 : Audrey_1
- Track 21 : Neos5_1, Phlyer_1, Rita1961_1, Philly_1, Chalmers_1, Devonte_1, ChaChing_1, Abinghost_1, Gadget_1, Akoma_1, Briakila_1, GlenHope_1, SynergyX_1, Pipefish_1, Heathcliff_1, Marley1013_1, Baloo_1, RomaT_1, RagingRooster_1, Nozo_1, Obutu_1, Compostia_1, Yinz_1, Chandler_1, Athena_1, Gervas_1, HarveySr_1, OrangeOswald_1, Deenasa_1, MmasiCarm_1, Glubnar_1, TinyTerror_1, LestyG_1, Daisy_1, Corofin_1, Shenandoah_1
- Track 22 : Yahalom_1, Mulaychimus_1, Marlia_1, Morty007_1, Bernardo_1, Tydolla_1, Phaedrus_1, Kamiyu_1, SwainyDoc_1
- Track 23 : Kronus_1, Halfpint_1, Casbah_1, Phayeta_1, Mortcellus_1, Ben11_1, Chentzyk_1
- Track 24 : Jackstina_1
- Track 25 : SlippinJimmy_1
- Track 26 : Olivio_1
- Track 27 : PenguinLover67_1
- Track 28 : Quesadilla_1
- Track 29 : CRB2_1

- Track 30 : BiggityBass_1
- Track 31 : AksarBAT_1
- Track 32 : Shatter_1, Fresco_1, Axumite_1, Ligma_1
- Track 33 : Mariokart_1
- Track 34 : NHagos_1
- Track 35 : Sour_1
- Track 36 : Sisko_1
- Track 37 : CharlottesWeb_1
- Track 38 : Yago84_1
- Track 39 : RomansRevenge_8, Boise_8
- Track 40 : Wrackline_72
- Track 41 : Jace_85

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

The start number called the most often in the published annotations is 5, it was called in 43 of the 93 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abinghost_1, Akoma_1, Athena_1, Audrey_1, Baloo_1, Ben11_1, Briakila_1, Casbah_1, ChaChing_1, Chalmers_1, Chandler_1, Chentzyk_1, Compostia_1, Corofin_1, Daisy_1, Deenasa_1, Devonte_1, Gadget_1, Gervas_1, GlenHope_1, Glubnar_1, Halfpint_1, HarveySr_1, Heathcliff_1, Kronus_1, LestyG_1, Marley1013_1, MmasiCarm_1, Mortcellus_1, Neos5_1, Nozo_1, Obutu_1, OrangeOswald_1, Phayeta_1, Philly_1, Phlyer_1, Pipefish_1, RagingRooster_1, Rita1961_1, RomaT_1, Shenandoah_1, SynergyX_1, TinyTerror_1, Yinz_1,

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

- Bernardo_1, Jackstina_1, Kamiyu_1, Marlia_1, Morty007_1, Mulaychimus_1, Olivio_1, Phaedrus_1, SlippinJimmy_1, SwainyDoc_1, Tydolla_1, Yahalom_1,

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

- AWGoat_9, AksarBAT_1, ApoKipo_5, Axumite_1, Beagle_15, BetaFish_14, BiggityBass_1, Boise_8, BruhMoment_12, CRB2_1, CharlottesWeb_1, DogYard_14, EastWest_74, Edmundo_4, Forrestell_12, Fresco_1, Hive_13, Jace_85, Kovu_5, Kubulix_15, Laroye_5, LiSara_5, Ligma_1, Mariokart_1, MellowYellow_12, NHagos_1, Nikan_12, NyleyClemson_12, Odyssey395_16, Ollypop_13, PenguinLover67_1, PhuzzTulsa_12, Pointis_14, Popstraw_13, Pureglobe5_16, Quesadilla_1, Ranunculus_10, RazzB_11, Ren19_10, Rizwana_10, RomansRevenge_8, Salgado_5, Shatter_1, Shrooms_5, SilentRX_10, Sisko_1, Sour_1, Tank_11, Waltz_5, Wheelbite_5, Wilde_11, Wrackline_72, Yago84_1,

Summary by start number:

Start 4:

- Found in 4 of 109 (3.7%) of genes in pham
- Manual Annotations of this start: 2 of 93
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Shrooms_5 (AL), Waltz_5 (AL),

Start 5:

- Found in 56 of 109 (51.4%) of genes in pham
- Manual Annotations of this start: 43 of 93
- Called 78.6% of time when present
- Phage (with cluster) where this start called: Abinghost_1 (B3), Akoma_1 (B3), Athena_1 (B3), Audrey_1 (B3), Baloo_1 (B3), Ben11_1 (B3), Briakila_1 (B3), Casbah_1 (B3), ChaChing_1 (B3), Chalmers_1 (B3), Chandler_1 (B3), Chentzyk_1 (B3), Compostia_1 (B3), Corofin_1 (B3), Daisy_1 (B3), Deenasa_1 (B3), Devonte_1 (B3), Gadget_1 (B3), Gervas_1 (B3), GlenHope_1 (B3), Glubnar_1 (B3), Halfpint_1 (B3), HarveySr_1 (B3), Heathcliff_1 (B3), Kronus_1 (B3), LestyG_1 (B3), Marley1013_1 (B3), MmasiCarm_1 (B3), Mortcellus_1 (B3), Neos5_1 (B3), Nozo_1 (B3), Obutu_1 (B3), OrangeOswald_1 (B3), Phayeta_1 (B3), Philly_1 (B3), Phlyer_1 (B3), Pipefish_1 (B3), RagingRooster_1 (B3), Rita1961_1 (B3), RomaT_1 (B3), Shenandoah_1 (B3), SynergyX_1 (B3), TinyTerror_1 (B3), Yinz_1 (B3),

Start 7:

- Found in 2 of 109 (1.8%) of genes in pham
- Manual Annotations of this start: 1 of 93
- Called 50.0% of time when present
- Phage (with cluster) where this start called: NHagos_1 (DR),

Start 9:

- Found in 56 of 109 (51.4%) of genes in pham
- Manual Annotations of this start: 1 of 93
- Called 3.6% of time when present
- Phage (with cluster) where this start called: Jackstina_1 (B3), SlippinJimmy_1 (B3),

Start 10:

- Found in 7 of 109 (6.4%) of genes in pham
- Manual Annotations of this start: 2 of 93
- Called 28.6% of time when present
- Phage (with cluster) where this start called: Laroye_5 (AL), Salgado_5 (AL),

Start 11:

- Found in 19 of 109 (17.4%) of genes in pham
- Manual Annotations of this start: 11 of 93
- Called 63.2% of time when present
- Phage (with cluster) where this start called: AksarBAT_1 (DR), Axumite_1 (DR), BiggityBass_1 (DR), CRB2_1 (B9), Fresco_1 (DR), Ligma_1 (DR), MarioKart_1 (DR), PenguinLover67_1 (B9), Quesadilla_1 (B9), Shatter_1 (DR), Sisko_1 (DR), Yago84_1 (DR),

Start 12:

- Found in 26 of 109 (23.9%) of genes in pham
- Manual Annotations of this start: 18 of 93
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AWGoat_9 (AP4), Beagle_15 (AP2), BetaFish_14 (AP2), Boise_8 (FT), BruhMoment_12 (AP3), DogYard_14 (AP2), Forrestell_12 (AP2), Hive_13 (AP2), Kubulix_15 (AP2), MellowYellow_12 (AP2), Nikan_12 (AP2), NyleyClemson_12 (AP2), Odyssey395_16 (AP2), Ollypop_13 (AP2), PhuzzTulsa_12 (AP2), Pointis_14 (AP2), Popstraw_13 (AP2), Pureglobe5_16 (AP2), Ranunculus_10 (AP), RazzB_11 (AP2), Ren19_10 (AP2), Rizwana_10 (AP1), RomansRevenge_8 (FT), SilentRX_10 (AP4), Tank_11 (AP1), Wilde_11 (AP1),

Start 14:

- Found in 3 of 109 (2.8%) of genes in pham
- Manual Annotations of this start: 1 of 93
- Called 33.3% of time when present
- Phage (with cluster) where this start called: EastWest_74 (AO),

Start 15:

- Found in 9 of 109 (8.3%) of genes in pham
- Manual Annotations of this start: 5 of 93
- Called 55.6% of time when present
- Phage (with cluster) where this start called: ApoKipo_5 (AL), Edmundo_4 (AL), Kovu_5 (AL), LiSara_5 (AL), Wheelbite_5 (AL),

Start 16:

- Found in 1 of 109 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 93
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Sour_1 (DR),

Start 18:

- Found in 15 of 109 (13.8%) of genes in pham
- Manual Annotations of this start: 1 of 93
- Called 6.7% of time when present
- Phage (with cluster) where this start called: Wrackline_72 (GF),

Start 19:

- Found in 1 of 109 (0.9%) of genes in pham
- Manual Annotations of this start: 1 of 93
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Jace_85 (singleton),

Start 20:

- Found in 56 of 109 (51.4%) of genes in pham
- No Manual Annotations of this start.
- Called 1.8% of time when present
- Phage (with cluster) where this start called: Olivio_1 (B3),

Start 22:

- Found in 72 of 109 (66.1%) of genes in pham
- Manual Annotations of this start: 6 of 93
- Called 13.9% of time when present
- Phage (with cluster) where this start called: Bernardo_1 (B3), CharlottesWeb_1 (DR), Kamiyu_1 (B3), Marlia_1 (B3), Morty007_1 (B3), Mulaychimus_1 (B3), Phaedrus_1 (B3), SwainyDoc_1 (B3), Tydolla_1 (B3), Yahalom_1 (B3),

Summary by clusters:

There are 13 clusters represented in this pham: singleton, FT, AP, AP2, AP3, AP1, AL, AP4, GF, AO, B3, DR, B9,

Info for manual annotations of cluster AL:

- Start number 4 was manually annotated 2 times for cluster AL.

- Start number 10 was manually annotated 2 times for cluster AL.
- Start number 15 was manually annotated 5 times for cluster AL.

Info for manual annotations of cluster AO:

- Start number 14 was manually annotated 1 time for cluster AO.

Info for manual annotations of cluster AP:

- Start number 12 was manually annotated 1 time for cluster AP.

Info for manual annotations of cluster AP1:

- Start number 12 was manually annotated 3 times for cluster AP1.

Info for manual annotations of cluster AP2:

- Start number 12 was manually annotated 10 times for cluster AP2.

Info for manual annotations of cluster AP3:

- Start number 12 was manually annotated 1 time for cluster AP3.

Info for manual annotations of cluster AP4:

- Start number 12 was manually annotated 2 times for cluster AP4.

Info for manual annotations of cluster B3:

- Start number 5 was manually annotated 43 times for cluster B3.
- Start number 9 was manually annotated 1 time for cluster B3.
- Start number 22 was manually annotated 6 times for cluster B3.

Info for manual annotations of cluster B9:

- Start number 11 was manually annotated 3 times for cluster B9.

Info for manual annotations of cluster DR:

- Start number 7 was manually annotated 1 time for cluster DR.
- Start number 11 was manually annotated 8 times for cluster DR.
- Start number 16 was manually annotated 1 time for cluster DR.

Info for manual annotations of cluster FT:

- Start number 12 was manually annotated 1 time for cluster FT.

Info for manual annotations of cluster GF:

- Start number 18 was manually annotated 1 time for cluster GF.

Gene Information:

Gene: AWGoat_9 Start: 3580, Stop: 4173, Start Num: 12

Candidate Starts for AWGoat_9:

(Start: 12 @3580 has 18 MA's), (43, 3808), (50, 3844), (51, 3853), (54, 3886), (55, 3889), (67, 3985), (69, 3991), (74, 4015), (82, 4051), (100, 4153), (102, 4159),

Gene: Abinghost_1 Start: 1, Stop: 693, Start Num: 5

Candidate Starts for Abinghost_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: Akoma_1 Start: 1, Stop: 693, Start Num: 5

Candidate Starts for Akoma_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: AksarBAT_1 Start: 10, Stop: 633, Start Num: 11

Candidate Starts for AksarBAT_1:

(Start: 7 @1 has 1 MA's), (Start: 11 @10 has 11 MA's), (25, 103), (26, 109), (32, 154), (35, 193), (39, 217), (47, 292), (65, 424), (73, 463), (90, 547), (92, 580), (102, 619), (103, 622), (104, 628),

Gene: ApoKipo_5 Start: 3227, Stop: 3832, Start Num: 15

Candidate Starts for ApoKipo_5:

(Start: 4 @3182 has 2 MA's), (Start: 10 @3209 has 2 MA's), (Start: 15 @3227 has 5 MA's), (Start: 22 @3257 has 6 MA's), (25, 3308), (33, 3362), (47, 3473), (65, 3602), (79, 3680), (101, 3809), (102, 3812),

Gene: Athena_1 Start: 1, Stop: 693, Start Num: 5

Candidate Starts for Athena_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: Audrey_1 Start: 1, Stop: 693, Start Num: 5

Candidate Starts for Audrey_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (32, 175), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: Axumite_1 Start: 1, Stop: 606, Start Num: 11

Candidate Starts for Axumite_1:

(Start: 11 @1 has 11 MA's), (25, 85), (29, 112), (32, 136), (35, 175), (57, 349), (80, 472), (92, 553), (102, 592), (103, 595), (104, 601),

Gene: Baloo_1 Start: 1, Stop: 693, Start Num: 5

Candidate Starts for Baloo_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: Beagle_15 Start: 4696, Stop: 5277, Start Num: 12

Candidate Starts for Beagle_15:

(Start: 12 @4696 has 18 MA's), (Start: 18 @4723 has 1 MA's), (43, 4924), (44, 4927), (46, 4933), (55, 5002), (62, 5041), (71, 5116), (103, 5266),

Gene: Ben11_1 Start: 1, Stop: 699, Start Num: 5

Candidate Starts for Ben11_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541), (105, 694),

Gene: Bernardo_1 Start: 73, Stop: 693, Start Num: 22

Candidate Starts for Bernardo_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: BetaFish_14 Start: 4896, Stop: 5477, Start Num: 12

Candidate Starts for BetaFish_14:

(Start: 12 @4896 has 18 MA's), (Start: 18 @4923 has 1 MA's), (43, 5124), (44, 5127), (46, 5133), (55, 5202), (62, 5241), (71, 5316), (103, 5466),

Gene: BiggityBass_1 Start: 1, Stop: 600, Start Num: 11

Candidate Starts for BiggityBass_1:

(Start: 11 @1 has 11 MA's), (Start: 22 @28 has 6 MA's), (25, 79), (30, 118), (35, 169), (51, 295), (89, 508), (102, 586),

Gene: Boise_8 Start: 3035, Stop: 3610, Start Num: 12

Candidate Starts for Boise_8:

(Start: 12 @3035 has 18 MA's), (21, 3071), (Start: 22 @3074 has 6 MA's), (24, 3089), (33, 3179), (41, 3254), (45, 3266), (46, 3269), (53, 3308), (58, 3353), (60, 3362), (72, 3443), (87, 3512), (93, 3554), (96, 3563), (100, 3590),

Gene: Briakila_1 Start: 1, Stop: 693, Start Num: 5

Candidate Starts for Briakila_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: BruhMoment_12 Start: 4721, Stop: 5308, Start Num: 12

Candidate Starts for BruhMoment_12:

(3, 4628), (Start: 12 @4721 has 18 MA's), (43, 4949), (51, 4994), (55, 5030), (59, 5048), (67, 5126), (69, 5132), (82, 5189), (92, 5255), (103, 5297),

Gene: CRB2_1 Start: 1, Stop: 633, Start Num: 11

Candidate Starts for CRB2_1:

(Start: 11 @1 has 11 MA's), (35, 187), (51, 313), (52, 316), (67, 433), (98, 601),

Gene: Casbah_1 Start: 1, Stop: 699, Start Num: 5

Candidate Starts for Casbah_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541), (105, 694),

Gene: ChaChing_1 Start: 1, Stop: 693, Start Num: 5

Candidate Starts for ChaChing_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: Chalmers_1 Start: 1, Stop: 693, Start Num: 5

Candidate Starts for Chalmers_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: Chandler_1 Start: 1, Stop: 693, Start Num: 5

Candidate Starts for Chandler_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: CharlottesWeb_1 Start: 40, Stop: 612, Start Num: 22

Candidate Starts for CharlottesWeb_1:

(Start: 11 @1 has 11 MA's), (Start: 22 @40 has 6 MA's), (25, 91), (32, 142), (35, 181), (42, 262), (47, 280), (51, 307), (80, 478), (90, 526), (92, 559), (102, 598), (103, 601), (104, 607),

Gene: Chentzyk_1 Start: 1, Stop: 699, Start Num: 5

Candidate Starts for Chentzyk_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541), (105, 694),

Gene: Compostia_1 Start: 1, Stop: 693, Start Num: 5

Candidate Starts for Compostia_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: Corofin_1 Start: 1, Stop: 693, Start Num: 5

Candidate Starts for Corofin_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: Daisy_1 Start: 1, Stop: 693, Start Num: 5

Candidate Starts for Daisy_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: Deenasa_1 Start: 1, Stop: 693, Start Num: 5

Candidate Starts for Deenasa_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: Devonte_1 Start: 1, Stop: 693, Start Num: 5

Candidate Starts for Devonte_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: DogYard_14 Start: 4766, Stop: 5347, Start Num: 12

Candidate Starts for DogYard_14:

(Start: 12 @4766 has 18 MA's), (Start: 18 @4793 has 1 MA's), (43, 4994), (44, 4997), (46, 5003), (55, 5072), (62, 5111), (71, 5186), (103, 5336),

Gene: EastWest_74 Start: 43726, Stop: 44280, Start Num: 14

Candidate Starts for EastWest_74:

(Start: 14 @43726 has 1 MA's), (32, 43861), (33, 43864), (44, 43951), (48, 43972), (51, 43990), (100, 44260), (102, 44266),

Gene: Edmundo_4 Start: 3516, Stop: 4121, Start Num: 15

Candidate Starts for Edmundo_4:

(Start: 10 @3498 has 2 MA's), (Start: 11 @3501 has 11 MA's), (Start: 15 @3516 has 5 MA's), (Start: 22 @3546 has 6 MA's), (25, 3597), (34, 3657), (43, 3747), (46, 3756), (77, 3951), (81, 3972), (103, 4104),

Gene: Forrestell_12 Start: 4123, Stop: 4704, Start Num: 12

Candidate Starts for Forrestell_12:

(Start: 12 @4123 has 18 MA's), (Start: 18 @4150 has 1 MA's), (43, 4351), (44, 4354), (46, 4360), (55, 4429), (62, 4468), (71, 4543), (103, 4693),

Gene: Fresco_1 Start: 1, Stop: 606, Start Num: 11

Candidate Starts for Fresco_1:

(Start: 11 @1 has 11 MA's), (25, 85), (29, 112), (32, 136), (35, 175), (57, 349), (80, 472), (92, 553), (102, 592), (103, 595), (104, 601),

Gene: Gadget_1 Start: 1, Stop: 693, Start Num: 5

Candidate Starts for Gadget_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: Gervas_1 Start: 1, Stop: 693, Start Num: 5

Candidate Starts for Gervas_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: GlenHope_1 Start: 1, Stop: 693, Start Num: 5

Candidate Starts for GlenHope_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: Glubnar_1 Start: 1, Stop: 693, Start Num: 5

Candidate Starts for Glubnar_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: Halfpint_1 Start: 1, Stop: 699, Start Num: 5

Candidate Starts for Halfpint_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541), (105, 694),

Gene: HarveySr_1 Start: 1, Stop: 693, Start Num: 5

Candidate Starts for HarveySr_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: Heathcliff_1 Start: 1, Stop: 693, Start Num: 5

Candidate Starts for Heathcliff_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: Hive_13 Start: 4780, Stop: 5361, Start Num: 12

Candidate Starts for Hive_13:

(Start: 12 @4780 has 18 MA's), (Start: 18 @4807 has 1 MA's), (43, 5008), (44, 5011), (46, 5017), (55, 5086), (62, 5125), (71, 5200), (103, 5350),

Gene: Jace_85 Start: 47046, Stop: 47594, Start Num: 19

Candidate Starts for Jace_85:

(Start: 19 @47046 has 1 MA's), (35, 47202), (38, 47223), (51, 47304), (52, 47307), (61, 47367), (94, 47559), (98, 47577), (99, 47586), (100, 47589),

Gene: Jackstina_1 Start: 22, Stop: 693, Start Num: 9

Candidate Starts for Jackstina_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: Kamiyu_1 Start: 73, Stop: 693, Start Num: 22

Candidate Starts for Kamiyu_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: Kovu_5 Start: 3470, Stop: 4075, Start Num: 15

Candidate Starts for Kovu_5:

(Start: 4 @3425 has 2 MA's), (Start: 10 @3452 has 2 MA's), (Start: 15 @3470 has 5 MA's), (Start: 22 @3500 has 6 MA's), (25, 3551), (32, 3602), (44, 3704), (47, 3716), (65, 3845), (79, 3923), (101, 4052), (102, 4055),

Gene: Kronus_1 Start: 1, Stop: 699, Start Num: 5

Candidate Starts for Kronus_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541), (105, 694),

Gene: Kubulix_15 Start: 4895, Stop: 5476, Start Num: 12

Candidate Starts for Kubulix_15:

(Start: 12 @4895 has 18 MA's), (Start: 18 @4922 has 1 MA's), (43, 5123), (44, 5126), (46, 5132), (55, 5201), (62, 5240), (71, 5315), (103, 5465),

Gene: Laroye_5 Start: 3276, Stop: 3899, Start Num: 10

Candidate Starts for Laroye_5:

(Start: 10 @3276 has 2 MA's), (Start: 11 @3279 has 11 MA's), (Start: 15 @3294 has 5 MA's), (Start: 22 @3324 has 6 MA's), (25, 3375), (32, 3426), (34, 3435), (43, 3525), (46, 3534), (47, 3540), (51, 3567), (77, 3729), (81, 3750), (103, 3882),

Gene: LestyG_1 Start: 1, Stop: 693, Start Num: 5

Candidate Starts for LestyG_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: LiSara_5 Start: 3325, Stop: 3930, Start Num: 15

Candidate Starts for LiSara_5:

(6, 3286), (Start: 10 @3307 has 2 MA's), (Start: 11 @3310 has 11 MA's), (Start: 15 @3325 has 5 MA's), (Start: 22 @3355 has 6 MA's), (25, 3406), (32, 3457), (34, 3466), (43, 3556), (46, 3565), (47, 3571), (51, 3598), (77, 3760), (81, 3781), (103, 3913),

Gene: Ligma_1 Start: 1, Stop: 606, Start Num: 11

Candidate Starts for Ligma_1:

(Start: 11 @1 has 11 MA's), (25, 85), (29, 112), (32, 136), (35, 175), (57, 349), (80, 472), (92, 553), (102, 592), (103, 595), (104, 601),

Gene: Mariokart_1 Start: 1, Stop: 612, Start Num: 11

Candidate Starts for Mariokart_1:

(Start: 11 @1 has 11 MA's), (Start: 22 @40 has 6 MA's), (25, 91), (32, 142), (35, 181), (42, 262), (47, 280), (51, 307), (90, 526), (92, 559), (103, 601),

Gene: Marley1013_1 Start: 1, Stop: 693, Start Num: 5

Candidate Starts for Marley1013_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: Marlia_1 Start: 73, Stop: 693, Start Num: 22

Candidate Starts for Marlia_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: MellowYellow_12 Start: 4153, Stop: 4734, Start Num: 12

Candidate Starts for MellowYellow_12:

(Start: 12 @4153 has 18 MA's), (Start: 18 @4180 has 1 MA's), (43, 4381), (44, 4384), (46, 4390), (55, 4459), (62, 4498), (71, 4573), (103, 4723),

Gene: MmasiCarm_1 Start: 1, Stop: 693, Start Num: 5

Candidate Starts for MmasiCarm_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: Mortcellus_1 Start: 1, Stop: 699, Start Num: 5

Candidate Starts for Mortcellus_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541), (105, 694),

Gene: Morty007_1 Start: 73, Stop: 693, Start Num: 22

Candidate Starts for Morty007_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: Mulaychimus_1 Start: 73, Stop: 693, Start Num: 22

Candidate Starts for Mulaychimus_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: NHagos_1 Start: 1, Stop: 633, Start Num: 7

Candidate Starts for NHagos_1:

(Start: 7 @1 has 1 MA's), (Start: 11 @10 has 11 MA's), (25, 103), (26, 109), (32, 154), (35, 193), (39, 217), (47, 292), (65, 424), (73, 463), (90, 547), (92, 580), (102, 619), (103, 622), (104, 628),

Gene: Neos5_1 Start: 1, Stop: 693, Start Num: 5

Candidate Starts for Neos5_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: Nikan_12 Start: 4634, Stop: 5215, Start Num: 12

Candidate Starts for Nikan_12:

(8, 4622), (Start: 12 @4634 has 18 MA's), (Start: 14 @4643 has 1 MA's), (17, 4652), (43, 4862), (44, 4865), (46, 4871), (55, 4940), (62, 4979), (88, 5126), (89, 5129), (97, 5183), (100, 5195), (103, 5204),

Gene: Nozo_1 Start: 1, Stop: 693, Start Num: 5

Candidate Starts for Nozo_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: NyleyClemson_12 Start: 4095, Stop: 4676, Start Num: 12

Candidate Starts for NyleyClemson_12:

(Start: 12 @4095 has 18 MA's), (Start: 18 @4122 has 1 MA's), (43, 4323), (44, 4326), (46, 4332), (55, 4401), (62, 4440), (71, 4515), (103, 4665),

Gene: Obutu_1 Start: 1, Stop: 693, Start Num: 5

Candidate Starts for Obutu_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: Odyssey395_16 Start: 4894, Stop: 5475, Start Num: 12

Candidate Starts for Odyssey395_16:

(Start: 12 @4894 has 18 MA's), (Start: 18 @4921 has 1 MA's), (43, 5122), (44, 5125), (46, 5131), (55, 5200), (62, 5239), (71, 5314), (103, 5464),

Gene: Olivio_1 Start: 64, Stop: 699, Start Num: 20

Candidate Starts for Olivio_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541), (105, 694),

Gene: Ollypop_13 Start: 4602, Stop: 5183, Start Num: 12

Candidate Starts for Ollypop_13:

(Start: 12 @4602 has 18 MA's), (43, 4830), (44, 4833), (46, 4839), (55, 4908), (62, 4947), (71, 5022), (87, 5091), (100, 5163), (103, 5172),

Gene: OrangeOswald_1 Start: 1, Stop: 693, Start Num: 5

Candidate Starts for OrangeOswald_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: PenguinLover67_1 Start: 1, Stop: 633, Start Num: 11

Candidate Starts for PenguinLover67_1:

(Start: 11 @1 has 11 MA's), (35, 187), (49, 298), (51, 313), (52, 316), (67, 433), (98, 601),

Gene: Phaedrus_1 Start: 73, Stop: 693, Start Num: 22

Candidate Starts for Phaedrus_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: Phayeta_1 Start: 1, Stop: 699, Start Num: 5

Candidate Starts for Phayeta_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541), (105, 694),

Gene: Philly_1 Start: 1, Stop: 693, Start Num: 5

Candidate Starts for Philly_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: Phlyer_1 Start: 1, Stop: 693, Start Num: 5

Candidate Starts for Phlyer_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: PhuzzTulsa_12 Start: 4684, Stop: 5265, Start Num: 12

Candidate Starts for PhuzzTulsa_12:

(Start: 12 @4684 has 18 MA's), (Start: 18 @4711 has 1 MA's), (43, 4912), (44, 4915), (46, 4921), (55, 4990), (62, 5029), (71, 5104), (103, 5254),

Gene: Pipefish_1 Start: 1, Stop: 693, Start Num: 5

Candidate Starts for Pipefish_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: Pointis_14 Start: 4895, Stop: 5476, Start Num: 12

Candidate Starts for Pointis_14:

(Start: 12 @4895 has 18 MA's), (Start: 18 @4922 has 1 MA's), (43, 5123), (44, 5126), (46, 5132), (55, 5201), (62, 5240), (71, 5315), (103, 5465),

Gene: Popstraw_13 Start: 4684, Stop: 5265, Start Num: 12

Candidate Starts for Popstraw_13:

(Start: 12 @4684 has 18 MA's), (Start: 18 @4711 has 1 MA's), (43, 4912), (44, 4915), (46, 4921), (55, 4990), (62, 5029), (71, 5104), (103, 5254),

Gene: Pureglobe5_16 Start: 4908, Stop: 5489, Start Num: 12

Candidate Starts for Pureglobe5_16:

(Start: 12 @4908 has 18 MA's), (Start: 18 @4935 has 1 MA's), (43, 5136), (44, 5139), (46, 5145), (55, 5214), (62, 5253), (71, 5328), (103, 5478),

Gene: Quesadilla_1 Start: 1, Stop: 633, Start Num: 11

Candidate Starts for Quesadilla_1:

(Start: 11 @1 has 11 MA's), (25, 97), (35, 187), (41, 265), (51, 313), (67, 433),

Gene: RagingRooster_1 Start: 1, Stop: 693, Start Num: 5

Candidate Starts for RagingRooster_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: Ranunculus_10 Start: 4388, Stop: 4969, Start Num: 12

Candidate Starts for Ranunculus_10:

(2, 4211), (Start: 12 @4388 has 18 MA's), (27, 4490), (43, 4616), (44, 4619), (62, 4733), (87, 4877), (88, 4880), (89, 4883), (102, 4955),

Gene: RazzB_11 Start: 3923, Stop: 4504, Start Num: 12

Candidate Starts for RazzB_11:

(Start: 12 @3923 has 18 MA's), (Start: 18 @3950 has 1 MA's), (43, 4151), (44, 4154), (46, 4160), (55, 4229), (62, 4268), (71, 4343), (103, 4493),

Gene: Ren19_10 Start: 4634, Stop: 5215, Start Num: 12

Candidate Starts for Ren19_10:

(8, 4622), (Start: 12 @4634 has 18 MA's), (Start: 14 @4643 has 1 MA's), (17, 4652), (43, 4862), (44, 4865), (46, 4871), (55, 4940), (62, 4979), (88, 5126), (89, 5129), (97, 5183), (100, 5195), (103, 5204),

Gene: Rita1961_1 Start: 1, Stop: 693, Start Num: 5

Candidate Starts for Rita1961_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: Rizwana_10 Start: 4484, Stop: 5074, Start Num: 12

Candidate Starts for Rizwana_10:

(Start: 12 @4484 has 18 MA's), (24, 4541), (28, 4589), (36, 4655), (48, 4739), (54, 4790), (55, 4793), (63, 4850), (73, 4913), (75, 4922), (84, 4964), (88, 4982), (100, 5054), (103, 5063),

Gene: RomaT_1 Start: 1, Stop: 693, Start Num: 5

Candidate Starts for RomaT_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: RomansRevenge_8 Start: 3035, Stop: 3610, Start Num: 12

Candidate Starts for RomansRevenge_8:

(Start: 12 @3035 has 18 MA's), (21, 3071), (Start: 22 @3074 has 6 MA's), (24, 3089), (33, 3179), (41, 3254), (45, 3266), (46, 3269), (53, 3308), (58, 3353), (60, 3362), (72, 3443), (87, 3512), (93, 3554), (96, 3563), (100, 3590),

Gene: Salgado_5 Start: 3284, Stop: 3907, Start Num: 10

Candidate Starts for Salgado_5:

(Start: 10 @3284 has 2 MA's), (Start: 11 @3287 has 11 MA's), (Start: 15 @3302 has 5 MA's), (Start: 22 @3332 has 6 MA's), (25, 3383), (32, 3434), (34, 3443), (43, 3533), (46, 3542), (47, 3548), (51, 3575), (77, 3737), (81, 3758), (103, 3890),

Gene: Shatter_1 Start: 1, Stop: 606, Start Num: 11

Candidate Starts for Shatter_1:

(Start: 11 @1 has 11 MA's), (25, 85), (29, 112), (32, 136), (35, 175), (57, 349), (80, 472), (92, 553), (102, 592), (103, 595), (104, 601),

Gene: Shenandoah_1 Start: 1, Stop: 693, Start Num: 5

Candidate Starts for Shenandoah_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: Shrooms_5 Start: 3310, Stop: 3960, Start Num: 4

Candidate Starts for Shrooms_5:

(1, 3046), (Start: 4 @3310 has 2 MA's), (Start: 15 @3355 has 5 MA's), (Start: 22 @3385 has 6 MA's), (25, 3436), (31, 3484), (32, 3487), (46, 3595), (47, 3601), (82, 3826), (91, 3889),

Gene: SilentRX_10 Start: 3301, Stop: 3894, Start Num: 12

Candidate Starts for SilentRX_10:

(Start: 12 @3301 has 18 MA's), (34, 3454), (43, 3529), (50, 3565), (51, 3574), (54, 3607), (55, 3610), (67, 3706), (69, 3712), (74, 3736), (82, 3772), (100, 3874), (102, 3880),

Gene: Sisko_1 Start: 1, Stop: 600, Start Num: 11

Candidate Starts for Sisko_1:

(Start: 11 @1 has 11 MA's), (Start: 22 @28 has 6 MA's), (25, 79), (30, 118), (51, 295), (102, 586), (103, 589),

Gene: SlippinJimmy_1 Start: 22, Stop: 693, Start Num: 9

Candidate Starts for SlippinJimmy_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: Sour_1 Start: 1, Stop: 615, Start Num: 16

Candidate Starts for Sour_1:

(Start: 16 @1 has 1 MA's), (32, 130), (35, 169), (39, 193), (47, 268), (51, 295), (67, 415), (98, 583),

Gene: SwainyDoc_1 Start: 73, Stop: 693, Start Num: 22

Candidate Starts for SwainyDoc_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: SynergyX_1 Start: 1, Stop: 693, Start Num: 5

Candidate Starts for SynergyX_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: Tank_11 Start: 4502, Stop: 5092, Start Num: 12

Candidate Starts for Tank_11:

(Start: 12 @4502 has 18 MA's), (36, 4673), (43, 4730), (48, 4757), (52, 4778), (55, 4811), (60, 4835), (64, 4871), (84, 4982), (85, 4988), (88, 5000), (102, 5078), (103, 5081),

Gene: TinyTerror_1 Start: 1, Stop: 693, Start Num: 5

Candidate Starts for TinyTerror_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: Tydolla_1 Start: 73, Stop: 693, Start Num: 22

Candidate Starts for Tydolla_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: Waltz_5 Start: 3398, Stop: 4048, Start Num: 4

Candidate Starts for Waltz_5:

(Start: 4 @3398 has 2 MA's), (Start: 15 @3443 has 5 MA's), (Start: 22 @3473 has 6 MA's), (25, 3524), (31, 3572), (46, 3683), (47, 3689), (91, 3977),

Gene: Wheelbite_5 Start: 3393, Stop: 3998, Start Num: 15

Candidate Starts for Wheelbite_5:

(Start: 10 @3375 has 2 MA's), (Start: 11 @3378 has 11 MA's), (Start: 15 @3393 has 5 MA's), (Start: 22 @3423 has 6 MA's), (25, 3474), (34, 3534), (46, 3633), (77, 3828), (81, 3849), (103, 3981),

Gene: Wilde_11 Start: 4430, Stop: 5020, Start Num: 12

Candidate Starts for Wilde_11:

(Start: 12 @4430 has 18 MA's), (36, 4601), (43, 4658), (48, 4685), (52, 4706), (55, 4739), (60, 4763), (64, 4799), (84, 4910), (85, 4916), (88, 4928), (102, 5006), (103, 5009),

Gene: Wrackline_72 Start: 37846, Stop: 38481, Start Num: 18

Candidate Starts for Wrackline_72:

(13, 37825), (Start: 18 @37846 has 1 MA's), (23, 37867), (25, 37912), (33, 37966), (35, 38002), (37, 38020), (46, 38071), (51, 38104), (56, 38149), (57, 38152), (60, 38164), (63, 38191), (66, 38221), (68, 38230), (71, 38245), (76, 38263), (82, 38308), (86, 38329), (87, 38332), (90, 38347), (95, 38389),

Gene: Yago84_1 Start: 1, Stop: 600, Start Num: 11

Candidate Starts for Yago84_1:

(Start: 11 @1 has 11 MA's), (Start: 22 @28 has 6 MA's), (25, 79), (30, 118), (51, 295), (78, 463), (102, 586), (103, 589),

Gene: Yahalom_1 Start: 73, Stop: 693, Start Num: 22

Candidate Starts for Yahalom_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),

Gene: Yinz_1 Start: 1, Stop: 693, Start Num: 5

Candidate Starts for Yinz_1:

(Start: 5 @1 has 43 MA's), (Start: 9 @22 has 1 MA's), (20, 64), (Start: 22 @73 has 6 MA's), (29, 151), (32, 175), (35, 214), (40, 253), (46, 307), (47, 313), (51, 340), (70, 478), (83, 541),