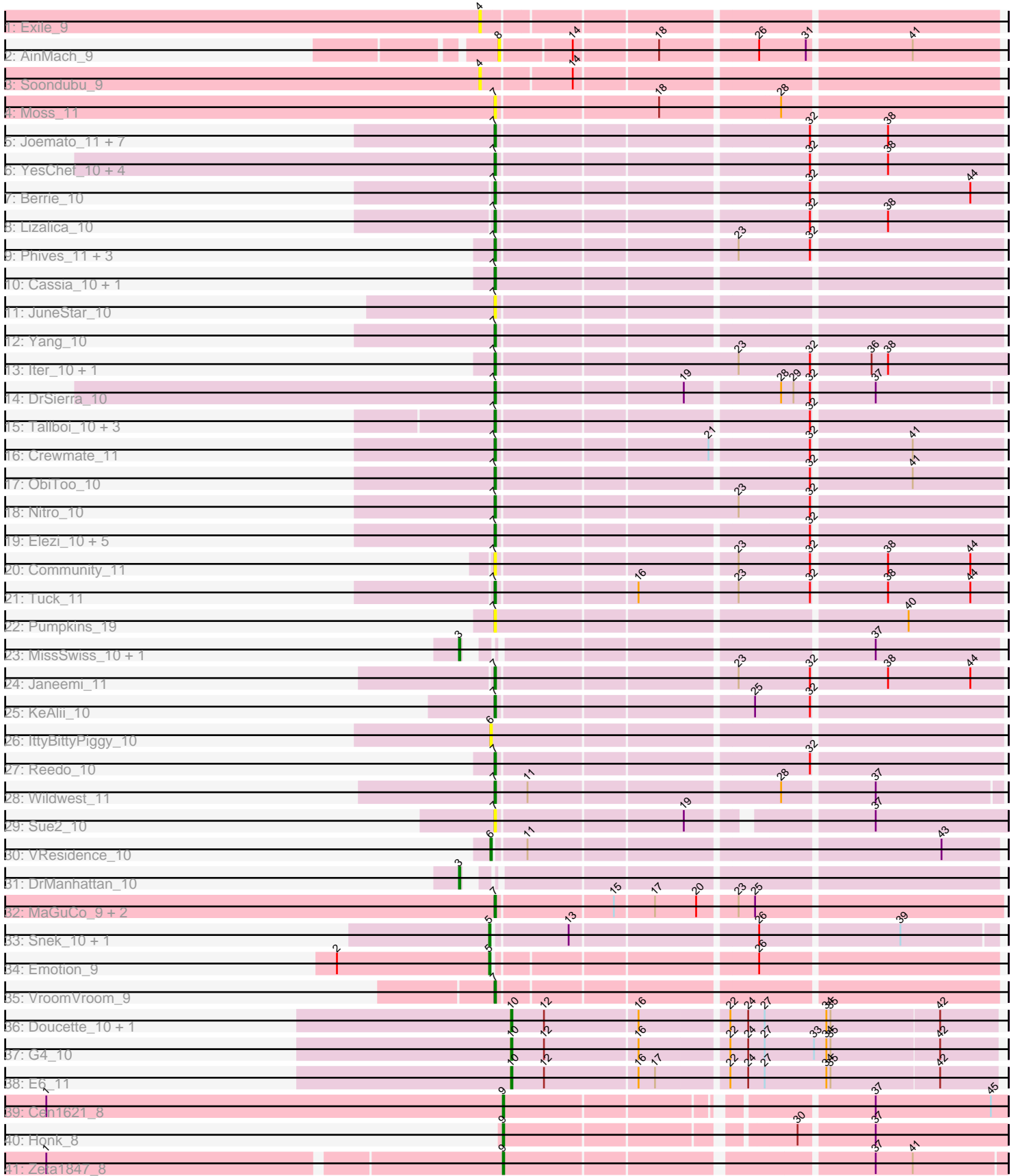


Pham 163584



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 163584 Report

This analysis was run 04/28/24 on database version 559.

Pham number 163584 has 70 members, 22 are drafts.

Phages represented in each track:

- Track 1 : Exile_9
- Track 2 : AinMach_9
- Track 3 : Soondubu_9
- Track 4 : Moss_11
- Track 5 : Joemato_11, Warda_10, JohnDoe_10, Cyan_10, Simpson_11, Mudpuppy_10, Kaylissa_10, Tbone_10
- Track 6 : YesChef_10, AGrandiflora_10, Tutumahutu_10, Powerpuff_10, Lego_10
- Track 7 : Berrie_10
- Track 8 : Lizalica_10
- Track 9 : Phives_11, Tian_10, Pixelle_10, Amyev_10
- Track 10 : Cassia_10, TforTroy_10
- Track 11 : JuneStar_10
- Track 12 : Yang_10
- Track 13 : Iter_10, Ascela_10
- Track 14 : DrSierra_10
- Track 15 : Tallboi_10, Adumb2043_10, Turab_10, AEgle_10
- Track 16 : Crewmate_11
- Track 17 : ObiToo_10
- Track 18 : Nitro_10
- Track 19 : Elezi_10, Niobe_10, Jstan_10, Eraser_10, Asa16_10, London_10
- Track 20 : Community_11
- Track 21 : Tuck_11
- Track 22 : Pumpkins_19
- Track 23 : MissSwiss_10, Adolin_10
- Track 24 : Janeemi_11
- Track 25 : KeAlii_10
- Track 26 : IttyBittyPiggy_10
- Track 27 : Reedo_10
- Track 28 : Wildwest_11
- Track 29 : Sue2_10
- Track 30 : VResidence_10
- Track 31 : DrManhattan_10
- Track 32 : MaGuCo_9, Liebe_9, Maureen_9
- Track 33 : Snek_10, Tweety19_10
- Track 34 : Emotion_9
- Track 35 : VroomVroom_9
- Track 36 : Doucette_10, B22_10

- Track 37 : G4_10
- Track 38 : E6_11
- Track 39 : Cen1621_8
- Track 40 : Honk_8
- Track 41 : Zeta1847_8

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

The start number called the most often in the published annotations is 7, it was called in 35 of the 48 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AEgle_10, AGrandiflora_10, Adumb2043_10, Amyev_10, Asa16_10, Ascela_10, Berrie_10, Cassia_10, Community_11, Crewmate_11, Cyan_10, DrSierra_10, Elezi_10, Eraser_10, Iter_10, Janeemi_11, Joemato_11, JohnDoe_10, Jstan_10, JuneStar_10, Kaylissa_10, KeAlii_10, Lego_10, Liebe_9, Lizalica_10, London_10, MaGuCo_9, Maureen_9, Moss_11, Mudpuppy_10, Niobe_10, Nitro_10, ObiToo_10, Phives_11, Pixelle_10, Powerpuff_10, Pumpkins_19, Reedo_10, Simpson_11, Sue2_10, Tallboi_10, Tbone_10, TforTroy_10, Tian_10, Tuck_11, Turab_10, Tutumahutu_10, VroomVroom_9, Warda_10, Wildwest_11, Yang_10, YesChef_10,

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

-

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

- Adolin_10, AinMach_9, B22_10, Cen1621_8, Doucette_10, DrManhattan_10, E6_11, Emotion_9, Exile_9, G4_10, Honk_8, IttyBittyPiggy_10, MissSwiss_10, Snek_10, Soondubu_9, Tweety19_10, VResidence_10, Zeta1847_8,

Summary by start number:

Start 3:

- Found in 3 of 70 (4.3%) of genes in pham
- Manual Annotations of this start: 2 of 48
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Adolin_10 (AZ1), DrManhattan_10 (AZ1), MissSwiss_10 (AZ1),

Start 4:

- Found in 2 of 70 (2.9%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Exile_9 (AZ), Soondubu_9 (AZ),

Start 5:

- Found in 3 of 70 (4.3%) of genes in pham
- Manual Annotations of this start: 3 of 48
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Emotion_9 (AZ4), Snek_10 (AZ3), Tweety19_10 (AZ3),

Start 6:

- Found in 2 of 70 (2.9%) of genes in pham
- Manual Annotations of this start: 1 of 48
- Called 100.0% of time when present
- Phage (with cluster) where this start called: IttyBittyPiggy_10 (AZ1), VResidence_10 (AZ1),

Start 7:

- Found in 52 of 70 (74.3%) of genes in pham
- Manual Annotations of this start: 35 of 48
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AEgle_10 (AZ1), AGrandiflora_10 (AZ1), Adumb2043_10 (AZ1), Amyev_10 (AZ1), Asa16_10 (AZ1), Ascela_10 (AZ1), Berrie_10 (AZ1), Cassia_10 (AZ1), Community_11 (AZ1), Crewmate_11 (AZ1), Cyan_10 (AZ1), DrSierra_10 (AZ1), Elezi_10 (AZ1), Eraser_10 (AZ1), Iter_10 (AZ1), Janeemi_11 (AZ1), Joemato_11 (AZ1), JohnDoe_10 (AZ1), Jstan_10 (AZ1), JuneStar_10 (AZ1), Kaylissa_10 (AZ1), KeAlii_10 (AZ1), Lego_10 (AZ1), Liebe_9 (AZ2), Lizalica_10 (AZ1), London_10 (AZ1), MaGuCo_9 (AZ2), Maureen_9 (AZ2), Moss_11 (AZ), Mudpuppy_10 (AZ1), Niobe_10 (AZ1), Nitro_10 (AZ1), ObiToo_10 (AZ1), Phives_11 (AZ1), Pixelle_10 (AZ1), Powerpuff_10 (AZ1), Pumpkins_19 (AZ1), Reedo_10 (AZ1), Simpson_11 (AZ1), Sue2_10 (AZ1), Tallboi_10 (AZ1), Tbone_10 (AZ1), TforTroy_10 (AZ1), Tian_10 (AZ1), Tuck_11 (AZ1), Turab_10 (AZ1), Tutumahutu_10 (AZ1), VroomVroom_9 (AZ4), Warda_10 (AZ1), Wildwest_11 (AZ1), Yang_10 (AZ1), YesChef_10 (AZ1),

Start 8:

- Found in 1 of 70 (1.4%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AinMach_9 (AZ),

Start 9:

- Found in 3 of 70 (4.3%) of genes in pham
- Manual Annotations of this start: 3 of 48
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cen1621_8 (EH), Honk_8 (EH), Zeta1847_8 (EH),

Start 10:

- Found in 4 of 70 (5.7%) of genes in pham
- Manual Annotations of this start: 4 of 48
- Called 100.0% of time when present
- Phage (with cluster) where this start called: B22_10 (BW), Doucette_10 (BW), E6_11 (BW), G4_10 (BW),

Summary by clusters:

There are 7 clusters represented in this pham: AZ, EH, BW, AZ1, AZ2, AZ3, AZ4,

Info for manual annotations of cluster AZ1:

- Start number 3 was manually annotated 2 times for cluster AZ1.

- Start number 6 was manually annotated 1 time for cluster AZ1.
- Start number 7 was manually annotated 31 times for cluster AZ1.

Info for manual annotations of cluster AZ2:

- Start number 7 was manually annotated 3 times for cluster AZ2.

Info for manual annotations of cluster AZ3:

- Start number 5 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster AZ4:

- Start number 5 was manually annotated 1 time for cluster AZ4.
- Start number 7 was manually annotated 1 time for cluster AZ4.

Info for manual annotations of cluster BW:

- Start number 10 was manually annotated 4 times for cluster BW.

Info for manual annotations of cluster EH:

- Start number 9 was manually annotated 3 times for cluster EH.

Gene Information:

Gene: AEgle_10 Start: 8385, Stop: 8732, Start Num: 7

Candidate Starts for AEgle_10:

(Start: 7 @8385 has 35 MA's), (32, 8598),

Gene: AGrandiflora_10 Start: 8369, Stop: 8716, Start Num: 7

Candidate Starts for AGrandiflora_10:

(Start: 7 @8369 has 35 MA's), (32, 8582), (38, 8633),

Gene: Adolin_10 Start: 8355, Stop: 8705, Start Num: 3

Candidate Starts for Adolin_10:

(Start: 3 @8355 has 2 MA's), (37, 8616),

Gene: Adumb2043_10 Start: 8384, Stop: 8731, Start Num: 7

Candidate Starts for Adumb2043_10:

(Start: 7 @8384 has 35 MA's), (32, 8597),

Gene: AinMach_9 Start: 7495, Stop: 7833, Start Num: 8

Candidate Starts for AinMach_9:

(8, 7495), (14, 7543), (18, 7600), (26, 7666), (31, 7699), (41, 7771),

Gene: Amyev_10 Start: 8400, Stop: 8747, Start Num: 7

Candidate Starts for Amyev_10:

(Start: 7 @8400 has 35 MA's), (23, 8562), (32, 8613),

Gene: Asa16_10 Start: 8354, Stop: 8701, Start Num: 7

Candidate Starts for Asa16_10:

(Start: 7 @8354 has 35 MA's), (32, 8567),

Gene: Ascela_10 Start: 8380, Stop: 8736, Start Num: 7

Candidate Starts for Ascela_10:

(Start: 7 @8380 has 35 MA's), (23, 8548), (32, 8599), (36, 8638), (38, 8650),

Gene: B22_10 Start: 7108, Stop: 7449, Start Num: 10

Candidate Starts for B22_10:

(Start: 10 @7108 has 4 MA's), (12, 7132), (16, 7198), (22, 7258), (24, 7270), (27, 7282), (34, 7327), (35, 7330), (42, 7408),

Gene: Berrie_10 Start: 8356, Stop: 8703, Start Num: 7

Candidate Starts for Berrie_10:

(Start: 7 @8356 has 35 MA's), (32, 8569), (44, 8680),

Gene: Cassia_10 Start: 8476, Stop: 8826, Start Num: 7

Candidate Starts for Cassia_10:

(Start: 7 @8476 has 35 MA's),

Gene: Cen1621_8 Start: 6748, Stop: 7080, Start Num: 9

Candidate Starts for Cen1621_8:

(1, 6415), (Start: 9 @6748 has 3 MA's), (37, 6985), (45, 7069),

Gene: Community_11 Start: 9435, Stop: 9782, Start Num: 7

Candidate Starts for Community_11:

(Start: 7 @9435 has 35 MA's), (23, 9597), (32, 9648), (38, 9699), (44, 9759),

Gene: Crewmate_11 Start: 8821, Stop: 9168, Start Num: 7

Candidate Starts for Crewmate_11:

(Start: 7 @8821 has 35 MA's), (21, 8968), (32, 9034), (41, 9103),

Gene: Cyan_10 Start: 8373, Stop: 8720, Start Num: 7

Candidate Starts for Cyan_10:

(Start: 7 @8373 has 35 MA's), (32, 8586), (38, 8637),

Gene: Doucette_10 Start: 7168, Stop: 7509, Start Num: 10

Candidate Starts for Doucette_10:

(Start: 10 @7168 has 4 MA's), (12, 7192), (16, 7258), (22, 7318), (24, 7330), (27, 7342), (34, 7387), (35, 7390), (42, 7468),

Gene: DrManhattan_10 Start: 8345, Stop: 8695, Start Num: 3

Candidate Starts for DrManhattan_10:

(Start: 3 @8345 has 2 MA's),

Gene: DrSierra_10 Start: 8382, Stop: 8726, Start Num: 7

Candidate Starts for DrSierra_10:

(Start: 7 @8382 has 35 MA's), (19, 8511), (28, 8574), (29, 8583), (32, 8595), (37, 8637),

Gene: E6_11 Start: 7219, Stop: 7560, Start Num: 10

Candidate Starts for E6_11:

(Start: 10 @7219 has 4 MA's), (12, 7243), (16, 7309), (17, 7321), (22, 7369), (24, 7381), (27, 7393), (34, 7438), (35, 7441), (42, 7519),

Gene: Elezi_10 Start: 8355, Stop: 8702, Start Num: 7

Candidate Starts for Elezi_10:

(Start: 7 @8355 has 35 MA's), (32, 8568),

Gene: Emotion_9 Start: 6723, Stop: 7064, Start Num: 5
Candidate Starts for Emotion_9:
(2, 6612), (Start: 5 @6723 has 3 MA's), (26, 6897),

Gene: Eraser_10 Start: 8355, Stop: 8702, Start Num: 7
Candidate Starts for Eraser_10:
(Start: 7 @8355 has 35 MA's), (32, 8568),

Gene: Exile_9 Start: 8263, Stop: 8613, Start Num: 4
Candidate Starts for Exile_9:
(4, 8263),

Gene: G4_10 Start: 7156, Stop: 7497, Start Num: 10
Candidate Starts for G4_10:
(Start: 10 @7156 has 4 MA's), (12, 7180), (16, 7246), (22, 7306), (24, 7318), (27, 7330), (33, 7366),
(34, 7375), (35, 7378), (42, 7456),

Gene: Honk_8 Start: 6713, Stop: 7048, Start Num: 9
Candidate Starts for Honk_8:
(Start: 9 @6713 has 3 MA's), (30, 6902), (37, 6953),

Gene: Iter_10 Start: 8380, Stop: 8736, Start Num: 7
Candidate Starts for Iter_10:
(Start: 7 @8380 has 35 MA's), (23, 8548), (32, 8599), (36, 8638), (38, 8650),

Gene: IttyBittyPiggy_10 Start: 8374, Stop: 8727, Start Num: 6
Candidate Starts for IttyBittyPiggy_10:
(Start: 6 @8374 has 1 MA's),

Gene: Janeemi_11 Start: 9466, Stop: 9813, Start Num: 7
Candidate Starts for Janeemi_11:
(Start: 7 @9466 has 35 MA's), (23, 9628), (32, 9679), (38, 9730), (44, 9790),

Gene: Joemato_11 Start: 8373, Stop: 8720, Start Num: 7
Candidate Starts for Joemato_11:
(Start: 7 @8373 has 35 MA's), (32, 8586), (38, 8637),

Gene: JohnDoe_10 Start: 8371, Stop: 8718, Start Num: 7
Candidate Starts for JohnDoe_10:
(Start: 7 @8371 has 35 MA's), (32, 8584), (38, 8635),

Gene: Jstan_10 Start: 8355, Stop: 8702, Start Num: 7
Candidate Starts for Jstan_10:
(Start: 7 @8355 has 35 MA's), (32, 8568),

Gene: JuneStar_10 Start: 8474, Stop: 8821, Start Num: 7
Candidate Starts for JuneStar_10:
(Start: 7 @8474 has 35 MA's),

Gene: Kaylissa_10 Start: 8374, Stop: 8721, Start Num: 7
Candidate Starts for Kaylissa_10:
(Start: 7 @8374 has 35 MA's), (32, 8587), (38, 8638),

Gene: KeAlii_10 Start: 8406, Stop: 8753, Start Num: 7
Candidate Starts for KeAlii_10:
(Start: 7 @8406 has 35 MA's), (25, 8580), (32, 8619),

Gene: Lego_10 Start: 8372, Stop: 8719, Start Num: 7
Candidate Starts for Lego_10:
(Start: 7 @8372 has 35 MA's), (32, 8585), (38, 8636),

Gene: Liebe_9 Start: 6828, Stop: 7175, Start Num: 7
Candidate Starts for Liebe_9:
(Start: 7 @6828 has 35 MA's), (15, 6909), (17, 6936), (20, 6966), (23, 6990), (25, 7002),

Gene: Lizalica_10 Start: 8361, Stop: 8708, Start Num: 7
Candidate Starts for Lizalica_10:
(Start: 7 @8361 has 35 MA's), (32, 8574), (38, 8625),

Gene: London_10 Start: 8355, Stop: 8702, Start Num: 7
Candidate Starts for London_10:
(Start: 7 @8355 has 35 MA's), (32, 8568),

Gene: MaGuCo_9 Start: 6687, Stop: 7034, Start Num: 7
Candidate Starts for MaGuCo_9:
(Start: 7 @6687 has 35 MA's), (15, 6768), (17, 6795), (20, 6825), (23, 6849), (25, 6861),

Gene: Maureen_9 Start: 6828, Stop: 7175, Start Num: 7
Candidate Starts for Maureen_9:
(Start: 7 @6828 has 35 MA's), (15, 6909), (17, 6936), (20, 6966), (23, 6990), (25, 7002),

Gene: MissSwiss_10 Start: 8349, Stop: 8699, Start Num: 3
Candidate Starts for MissSwiss_10:
(Start: 3 @8349 has 2 MA's), (37, 8610),

Gene: Moss_11 Start: 7908, Stop: 8258, Start Num: 7
Candidate Starts for Moss_11:
(Start: 7 @7908 has 35 MA's), (18, 8022), (28, 8103),

Gene: Mudpuppy_10 Start: 8372, Stop: 8719, Start Num: 7
Candidate Starts for Mudpuppy_10:
(Start: 7 @8372 has 35 MA's), (32, 8585), (38, 8636),

Gene: Niobe_10 Start: 8355, Stop: 8702, Start Num: 7
Candidate Starts for Niobe_10:
(Start: 7 @8355 has 35 MA's), (32, 8568),

Gene: Nitro_10 Start: 8372, Stop: 8725, Start Num: 7
Candidate Starts for Nitro_10:
(Start: 7 @8372 has 35 MA's), (23, 8540), (32, 8591),

Gene: ObiToo_10 Start: 8558, Stop: 8905, Start Num: 7
Candidate Starts for ObiToo_10:
(Start: 7 @8558 has 35 MA's), (32, 8771), (41, 8840),

Gene: Phives_11 Start: 9460, Stop: 9807, Start Num: 7

Candidate Starts for Phives_11:
(Start: 7 @9460 has 35 MA's), (23, 9622), (32, 9673),

Gene: Pixelle_10 Start: 8403, Stop: 8750, Start Num: 7
Candidate Starts for Pixelle_10:
(Start: 7 @8403 has 35 MA's), (23, 8565), (32, 8616),

Gene: Powerpuff_10 Start: 8423, Stop: 8770, Start Num: 7
Candidate Starts for Powerpuff_10:
(Start: 7 @8423 has 35 MA's), (32, 8636), (38, 8687),

Gene: Pumpkins_19 Start: 8478, Stop: 8828, Start Num: 7
Candidate Starts for Pumpkins_19:
(Start: 7 @8478 has 35 MA's), (40, 8760),

Gene: Reedo_10 Start: 8425, Stop: 8772, Start Num: 7
Candidate Starts for Reedo_10:
(Start: 7 @8425 has 35 MA's), (32, 8638),

Gene: Simpson_11 Start: 8373, Stop: 8720, Start Num: 7
Candidate Starts for Simpson_11:
(Start: 7 @8373 has 35 MA's), (32, 8586), (38, 8637),

Gene: Snek_10 Start: 7472, Stop: 7813, Start Num: 5
Candidate Starts for Snek_10:
(Start: 5 @7472 has 3 MA's), (13, 7523), (26, 7649), (39, 7745),

Gene: Soondubu_9 Start: 8264, Stop: 8614, Start Num: 4
Candidate Starts for Soondubu_9:
(4, 8264), (14, 8324),

Gene: Sue2_10 Start: 8396, Stop: 8734, Start Num: 7
Candidate Starts for Sue2_10:
(Start: 7 @8396 has 35 MA's), (19, 8525), (37, 8639),

Gene: Tallboi_10 Start: 8389, Stop: 8736, Start Num: 7
Candidate Starts for Tallboi_10:
(Start: 7 @8389 has 35 MA's), (32, 8602),

Gene: Tbone_10 Start: 8369, Stop: 8716, Start Num: 7
Candidate Starts for Tbone_10:
(Start: 7 @8369 has 35 MA's), (32, 8582), (38, 8633),

Gene: TforTroy_10 Start: 8501, Stop: 8851, Start Num: 7
Candidate Starts for TforTroy_10:
(Start: 7 @8501 has 35 MA's),

Gene: Tian_10 Start: 8400, Stop: 8747, Start Num: 7
Candidate Starts for Tian_10:
(Start: 7 @8400 has 35 MA's), (23, 8562), (32, 8613),

Gene: Tuck_11 Start: 9415, Stop: 9762, Start Num: 7
Candidate Starts for Tuck_11:

(Start: 7 @9415 has 35 MA's), (16, 9511), (23, 9577), (32, 9628), (38, 9679), (44, 9739),

Gene: Turab_10 Start: 8384, Stop: 8731, Start Num: 7

Candidate Starts for Turab_10:

(Start: 7 @8384 has 35 MA's), (32, 8597),

Gene: Tutumahutu_10 Start: 8423, Stop: 8770, Start Num: 7

Candidate Starts for Tutumahutu_10:

(Start: 7 @8423 has 35 MA's), (32, 8636), (38, 8687),

Gene: Tweety19_10 Start: 7471, Stop: 7812, Start Num: 5

Candidate Starts for Tweety19_10:

(Start: 5 @7471 has 3 MA's), (13, 7522), (26, 7648), (39, 7744),

Gene: VResidence_10 Start: 8441, Stop: 8785, Start Num: 6

Candidate Starts for VResidence_10:

(Start: 6 @8441 has 1 MA's), (11, 8462), (43, 8744),

Gene: VroomVroom_9 Start: 6670, Stop: 7011, Start Num: 7

Candidate Starts for VroomVroom_9:

(Start: 7 @6670 has 35 MA's),

Gene: Warda_10 Start: 8369, Stop: 8716, Start Num: 7

Candidate Starts for Warda_10:

(Start: 7 @8369 has 35 MA's), (32, 8582), (38, 8633),

Gene: Wildwest_11 Start: 9289, Stop: 9633, Start Num: 7

Candidate Starts for Wildwest_11:

(Start: 7 @9289 has 35 MA's), (11, 9310), (28, 9481), (37, 9544),

Gene: Yang_10 Start: 8474, Stop: 8821, Start Num: 7

Candidate Starts for Yang_10:

(Start: 7 @8474 has 35 MA's),

Gene: YesChef_10 Start: 8423, Stop: 8770, Start Num: 7

Candidate Starts for YesChef_10:

(Start: 7 @8423 has 35 MA's), (32, 8636), (38, 8687),

Gene: Zeta1847_8 Start: 6684, Stop: 7025, Start Num: 9

Candidate Starts for Zeta1847_8:

(1, 6363), (Start: 9 @6684 has 3 MA's), (37, 6933), (41, 6960),