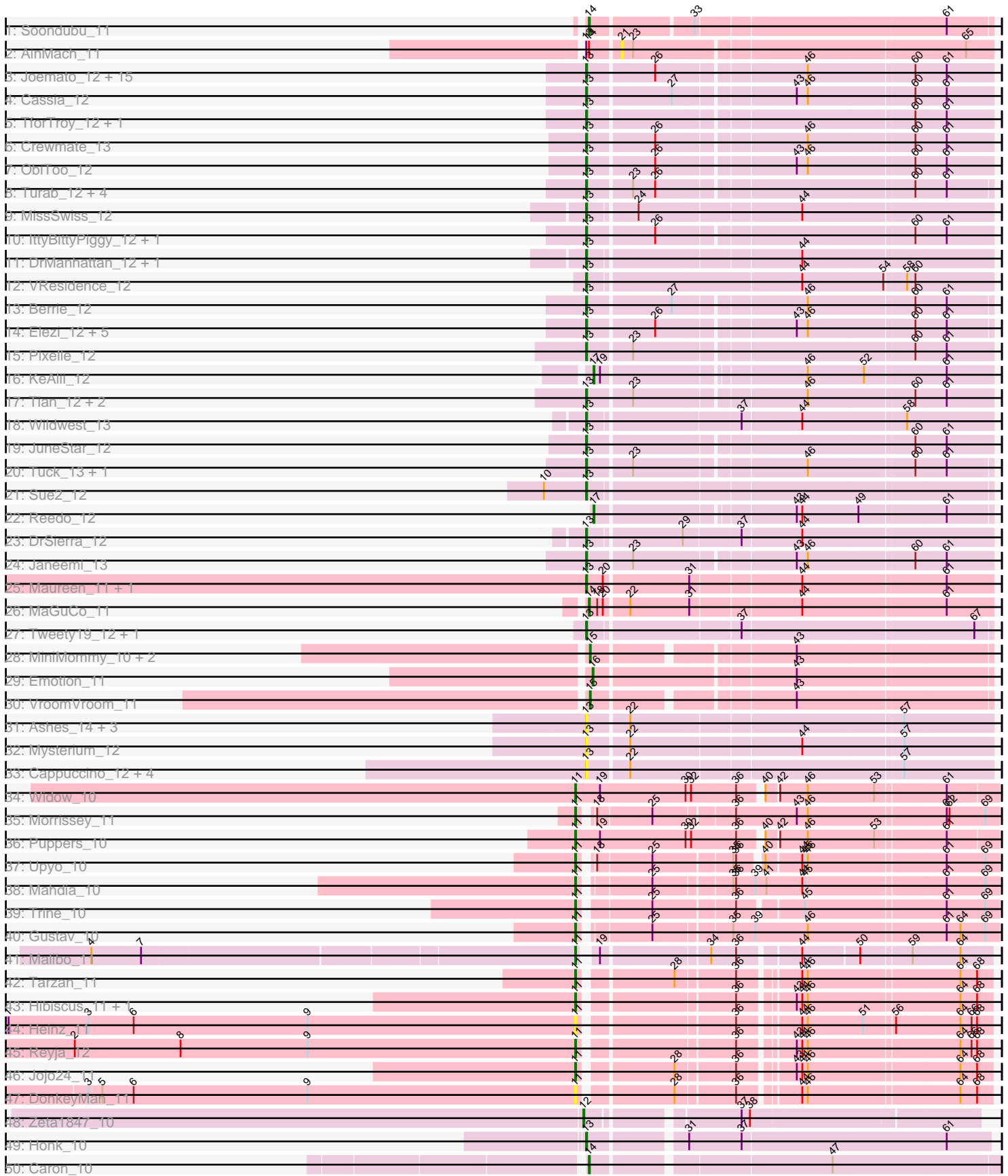
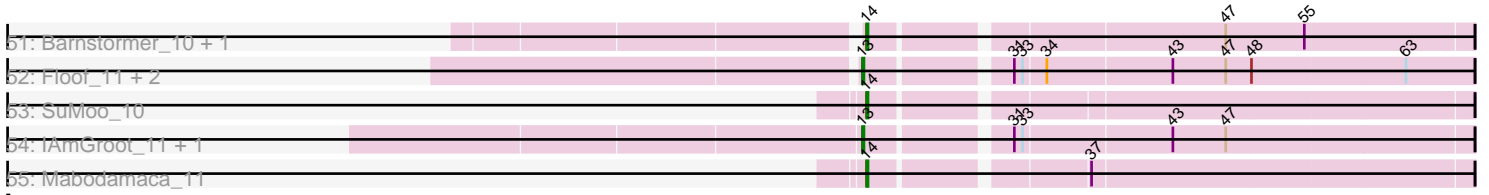


Pham 196431



Pham 196431



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 196431 Report

This analysis was run 12/09/24 on database version 580.

Pham number 196431 has 101 members, 23 are drafts.

Phages represented in each track:

- Track 1 : Soondubu_11
- Track 2 : AinMach_11
- Track 3 : Joemato_12, Iter_12, AGrandiflora_12, JohnDoe_12, Cyan_12, Lego_12, YesChef_12, Lizalica_12, Simpson_13, Kaylissa_12, Tutumahutu_12, Tbone_12, Powerpuff_12, Warda_12, Ascela_12, Mudpuppy_12
- Track 4 : Cassia_12
- Track 5 : TforTroy_12, Yang_12
- Track 6 : Crewmate_13
- Track 7 : ObiToo_12
- Track 8 : Turab_12, Tallboi_12, Adumb2043_12, AEgle_12, Nitro_12
- Track 9 : MissSwiss_12
- Track 10 : IttyBittyPiggy_12, Pumpkins_12
- Track 11 : DrManhattan_12, Adolin_12
- Track 12 : VResidence_12
- Track 13 : Berrie_12
- Track 14 : Elezi_12, Jstan_12, Eraser_12, London_12, Niobe_12, Asa16_12
- Track 15 : Pixelle_12
- Track 16 : KeAlii_12
- Track 17 : Tian_12, Amyev_12, Phives_13
- Track 18 : Wildwest_13
- Track 19 : JuneStar_12
- Track 20 : Tuck_13, Community_13
- Track 21 : Sue2_12
- Track 22 : Reedo_12
- Track 23 : DrSierra_12
- Track 24 : Janeemi_13
- Track 25 : Maureen_11, Liebe_11
- Track 26 : MaGuCo_11
- Track 27 : Tweety19_12, Snek_12
- Track 28 : MiniMommy_10, JasmineDragon_11, ShakeltOph_11
- Track 29 : Emotion_11
- Track 30 : VroomVroom_11
- Track 31 : Ashes_14, SpecialK_14, Halsey_15, Moss_14
- Track 32 : Mysterium_12
- Track 33 : Cappuccino_12, Kalimba_12, Donkey_12, Gambol_12, Sooty_12
- Track 34 : Widow_10
- Track 35 : Morrissey_11

- Track 36 : Puppies_10
- Track 37 : Upyo_10
- Track 38 : Mahdia_10
- Track 39 : Trine_10
- Track 40 : Gustav_10
- Track 41 : Malibo_11
- Track 42 : Tarzan_11
- Track 43 : Hibiscus_11, Santhid_11
- Track 44 : Heinz_11
- Track 45 : Reyja_12
- Track 46 : Jojo24_11
- Track 47 : DonkeyMan_11
- Track 48 : Zeta1847_10
- Track 49 : Honk_10
- Track 50 : Caron_10
- Track 51 : Barnstormer_10, UtzChips_10
- Track 52 : Floof_11, Percival_11, Gretchen_11
- Track 53 : SuMoo_10
- Track 54 : IAmGroot_11, GardenState_11
- Track 55 : Mabodamaca_11

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

The start number called the most often in the published annotations is 13, it was called in 52 of the 78 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AEgle_12, AGrandiflora_12, Adolin_12, Adumb2043_12, Amyev_12, Asa16_12, Ascela_12, Ashes_14, Berrie_12, Cappuccino_12, Cassia_12, Community_13, Crewmate_13, Cyan_12, Donkey_12, DrManhattan_12, DrSierra_12, Elezi_12, Eraser_12, Floof_11, Gambol_12, GardenState_11, Gretchen_11, Halsey_15, Honk_10, IAmGroot_11, Iter_12, IttyBittyPiggy_12, Janeemi_13, Joemato_12, JohnDoe_12, Jstan_12, JuneStar_12, Kalimba_12, Kaylissa_12, Lego_12, Liebe_11, Lizalica_12, London_12, Maureen_11, MissSwiss_12, Moss_14, Mudpuppy_12, Mysterium_12, Niobe_12, Nitro_12, ObiToo_12, Percival_11, Phives_13, Pixelle_12, Powerpuff_12, Pumpkins_12, Simpson_13, Snek_12, Sooty_12, SpecialK_14, Sue2_12, Tallboi_12, Tbone_12, TforTroy_12, Tian_12, Tuck_13, Turab_12, Tutumahutu_12, Tweety19_12, VResidence_12, Warda_12, Wildwest_13, Yang_12, YesChef_12,

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

- AinMach_11,

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

- Barnstormer_10, Caron_10, DonkeyMan_11, Emotion_11, Gustav_10, Heinz_11, Hibiscus_11, JasmineDragon_11, Jojo24_11, KeAlii_12, MaGuCo_11, Mabodamaca_11, Mahdia_10, Malibo_11, MiniMommy_10, Morrissey_11, Puppies_10, Reedo_12, Reyja_12, Santhid_11, ShakeltOph_11, Soondubu_11, SuMoo_10, Tarzan_11, Trine_10, Upyo_10, UtzChips_10, VroomVroom_11, Widow_10, Zeta1847_10,

Summary by start number:

Start 11:

- Found in 15 of 101 (14.9%) of genes in pham
- Manual Annotations of this start: 13 of 78
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DonkeyMan_11 (DY), Gustav_10 (CD), Heinz_11 (DY), Hibiscus_11 (DY), Jojo24_11 (DY), Mahdia_10 (CD), Malibo_11 (DW), Morrissey_11 (CD), Puppies_10 (CD), Reyja_12 (DY), Santhid_11 (DY), Tarzan_11 (DY), Trine_10 (CD), Upyo_10 (CD), Widow_10 (CD),

Start 12:

- Found in 1 of 101 (1.0%) of genes in pham
- Manual Annotations of this start: 1 of 78
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Zeta1847_10 (EH),

Start 13:

- Found in 71 of 101 (70.3%) of genes in pham
- Manual Annotations of this start: 52 of 78
- Called 98.6% of time when present
- Phage (with cluster) where this start called: AEgle_12 (AZ1), AGrandiflora_12 (AZ1), Adolin_12 (AZ1), Adumb2043_12 (AZ1), Amyev_12 (AZ1), Asa16_12 (AZ1), Ascela_12 (AZ1), Ashes_14 (AZ5), Berrie_12 (AZ1), Cappuccino_12 (AZ5), Cassia_12 (AZ1), Community_13 (AZ1), Crewmate_13 (AZ1), Cyan_12 (AZ1), Donkey_12 (AZ5), DrManhattan_12 (AZ1), DrSierra_12 (AZ1), Elezi_12 (AZ1), Eraser_12 (AZ1), Floof_11 (EH), Gambol_12 (AZ5), GardenState_11 (EH), Gretchen_11 (EH), Halsey_15 (AZ5), Honk_10 (EH), IAmGroot_11 (EH), Iter_12 (AZ1), IttyBittyPiggy_12 (AZ1), Janeemi_13 (AZ1), Joemato_12 (AZ1), JohnDoe_12 (AZ1), Jstan_12 (AZ1), JuneStar_12 (AZ1), Kalimba_12 (AZ5), Kaylissa_12 (AZ1), Lego_12 (AZ1), Liebe_11 (AZ2), Lizalica_12 (AZ1), London_12 (AZ1), Maureen_11 (AZ2), MissSwiss_12 (AZ1), Moss_14 (AZ5), Mudpuppy_12 (AZ1), Mysterium_12 (AZ5), Niobe_12 (AZ1), Nitro_12 (AZ1), ObiToo_12 (AZ1), Percival_11 (EH), Phives_13 (AZ1), Pixelle_12 (AZ1), Powerpuff_12 (AZ1), Pumpkins_12 (AZ1), Simpson_13 (AZ1), Snek_12 (AZ3), Sooty_12 (AZ5), SpecialK_14 (AZ5), Sue2_12 (AZ1), Tallboi_12 (AZ1), Tbone_12 (AZ1), TforTroy_12 (AZ1), Tian_12 (AZ1), Tuck_13 (AZ1), Turab_12 (AZ1), Tutumahutu_12 (AZ1), Tweety19_12 (AZ3), VResidence_12 (AZ1), Warda_12 (AZ1), Wildwest_13 (AZ1), Yang_12 (AZ1), YesChef_12 (AZ1),

Start 14:

- Found in 8 of 101 (7.9%) of genes in pham
- Manual Annotations of this start: 7 of 78
- Called 87.5% of time when present
- Phage (with cluster) where this start called: Barnstormer_10 (EH), Caron_10 (EH), MaGuCo_11 (AZ2), Mabodamaca_11 (EH), Soondubu_11 (AZ), SuMoo_10 (EH), UtzChips_10 (EH),

Start 15:

- Found in 4 of 101 (4.0%) of genes in pham
- Manual Annotations of this start: 2 of 78
- Called 100.0% of time when present

- Phage (with cluster) where this start called: JasmineDragon_11 (AZ4), MiniMommy_10 (AZ4), ShakeltOph_11 (AZ4), VroomVroom_11 (AZ4),

Start 16:

- Found in 1 of 101 (1.0%) of genes in pham
- Manual Annotations of this start: 1 of 78
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Emotion_11 (AZ4),

Start 17:

- Found in 2 of 101 (2.0%) of genes in pham
- Manual Annotations of this start: 2 of 78
- Called 100.0% of time when present
- Phage (with cluster) where this start called: KeAlii_12 (AZ1), Reedo_12 (AZ1),

Start 21:

- Found in 1 of 101 (1.0%) 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_11 (AZ),

Summary by clusters:

There are 10 clusters represented in this pham: AZ, EH, CD, DW, DY, AZ1, AZ2, AZ3, AZ4, AZ5,

Info for manual annotations of cluster AZ:

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

Info for manual annotations of cluster AZ1:

- Start number 13 was manually annotated 42 times for cluster AZ1.
- Start number 17 was manually annotated 2 times for cluster AZ1.

Info for manual annotations of cluster AZ2:

- Start number 13 was manually annotated 2 times for cluster AZ2.
- Start number 14 was manually annotated 1 time for cluster AZ2.

Info for manual annotations of cluster AZ3:

- Start number 13 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster AZ4:

- Start number 15 was manually annotated 2 times for cluster AZ4.
- Start number 16 was manually annotated 1 time for cluster AZ4.

Info for manual annotations of cluster CD:

- Start number 11 was manually annotated 7 times for cluster CD.

Info for manual annotations of cluster DW:

- Start number 11 was manually annotated 1 time for cluster DW.

Info for manual annotations of cluster DY:

- Start number 11 was manually annotated 5 times for cluster DY.

Info for manual annotations of cluster EH:

- Start number 12 was manually annotated 1 time for cluster EH.
- Start number 13 was manually annotated 6 times for cluster EH.
- Start number 14 was manually annotated 5 times for cluster EH.

Gene Information:

Gene: AEgle_12 Start: 9049, Stop: 9459, Start Num: 13

Candidate Starts for AEgle_12:

(Start: 13 @9049 has 52 MA's), (23, 9094), (26, 9118), (60, 9379), (61, 9412),

Gene: AGrandiflora_12 Start: 9036, Stop: 9449, Start Num: 13

Candidate Starts for AGrandiflora_12:

(Start: 13 @9036 has 52 MA's), (26, 9105), (46, 9255), (60, 9366), (61, 9399),

Gene: Adolin_12 Start: 9024, Stop: 9440, Start Num: 13

Candidate Starts for Adolin_12:

(Start: 13 @9024 has 52 MA's), (44, 9240),

Gene: Adumb2043_12 Start: 9048, Stop: 9458, Start Num: 13

Candidate Starts for Adumb2043_12:

(Start: 13 @9048 has 52 MA's), (23, 9093), (26, 9117), (60, 9378), (61, 9411),

Gene: AinMach_11 Start: 8183, Stop: 8566, Start Num: 21

Candidate Starts for AinMach_11:

(Start: 13 @8150 has 52 MA's), (Start: 14 @8153 has 7 MA's), (21, 8183), (23, 8195), (65, 8537),

Gene: Amyev_12 Start: 9064, Stop: 9477, Start Num: 13

Candidate Starts for Amyev_12:

(Start: 13 @9064 has 52 MA's), (23, 9109), (46, 9283), (60, 9394), (61, 9427),

Gene: Asa16_12 Start: 9018, Stop: 9428, Start Num: 13

Candidate Starts for Asa16_12:

(Start: 13 @9018 has 52 MA's), (26, 9087), (43, 9225), (46, 9237), (60, 9348), (61, 9381),

Gene: Ascela_12 Start: 9053, Stop: 9463, Start Num: 13

Candidate Starts for Ascela_12:

(Start: 13 @9053 has 52 MA's), (26, 9122), (46, 9272), (60, 9383), (61, 9416),

Gene: Ashes_14 Start: 8547, Stop: 8966, Start Num: 13

Candidate Starts for Ashes_14:

(Start: 13 @8547 has 52 MA's), (22, 8589), (57, 8871),

Gene: Barnstormer_10 Start: 8216, Stop: 8632, Start Num: 14

Candidate Starts for Barnstormer_10:

(Start: 14 @8216 has 7 MA's), (47, 8456), (55, 8513),

Gene: Berrie_12 Start: 9020, Stop: 9430, Start Num: 13

Candidate Starts for Berrie_12:

(Start: 13 @9020 has 52 MA's), (27, 9107), (46, 9239), (60, 9350), (61, 9383),

Gene: Cappuccino_12 Start: 8456, Stop: 8875, Start Num: 13

Candidate Starts for Cappuccino_12:

(Start: 13 @8456 has 52 MA's), (22, 8498), (57, 8780),

Gene: Caron_10 Start: 8244, Stop: 8660, Start Num: 14

Candidate Starts for Caron_10:

(Start: 14 @8244 has 7 MA's), (47, 8484),

Gene: Cassia_12 Start: 9139, Stop: 9552, Start Num: 13

Candidate Starts for Cassia_12:

(Start: 13 @9139 has 52 MA's), (27, 9226), (43, 9346), (46, 9358), (60, 9469), (61, 9502),

Gene: Community_13 Start: 10099, Stop: 10509, Start Num: 13

Candidate Starts for Community_13:

(Start: 13 @10099 has 52 MA's), (23, 10144), (46, 10318), (60, 10429), (61, 10462),

Gene: Crewmate_13 Start: 9485, Stop: 9898, Start Num: 13

Candidate Starts for Crewmate_13:

(Start: 13 @9485 has 52 MA's), (26, 9554), (46, 9704), (60, 9815), (61, 9848),

Gene: Cyan_12 Start: 9040, Stop: 9453, Start Num: 13

Candidate Starts for Cyan_12:

(Start: 13 @9040 has 52 MA's), (26, 9109), (46, 9259), (60, 9370), (61, 9403),

Gene: DonkeyMan_11 Start: 7427, Stop: 7831, Start Num: 11

Candidate Starts for DonkeyMan_11:

(3, 6899), (5, 6914), (6, 6947), (9, 7136), (Start: 11 @7427 has 13 MA's), (28, 7517), (36, 7577), (44, 7634), (46, 7640), (64, 7799), (68, 7817),

Gene: Donkey_12 Start: 8456, Stop: 8875, Start Num: 13

Candidate Starts for Donkey_12:

(Start: 13 @8456 has 52 MA's), (22, 8498), (57, 8780),

Gene: DrManhattan_12 Start: 9014, Stop: 9430, Start Num: 13

Candidate Starts for DrManhattan_12:

(Start: 13 @9014 has 52 MA's), (44, 9230),

Gene: DrSierra_12 Start: 9047, Stop: 9463, Start Num: 13

Candidate Starts for DrSierra_12:

(Start: 13 @9047 has 52 MA's), (29, 9143), (37, 9200), (44, 9263),

Gene: Elezi_12 Start: 9019, Stop: 9429, Start Num: 13

Candidate Starts for Elezi_12:

(Start: 13 @9019 has 52 MA's), (26, 9088), (43, 9226), (46, 9238), (60, 9349), (61, 9382),

Gene: Emotion_11 Start: 7354, Stop: 7758, Start Num: 16

Candidate Starts for Emotion_11:

(Start: 16 @7354 has 1 MA's), (43, 7555),

Gene: Eraser_12 Start: 9019, Stop: 9429, Start Num: 13

Candidate Starts for Eraser_12:

(Start: 13 @9019 has 52 MA's), (26, 9088), (43, 9226), (46, 9238), (60, 9349), (61, 9382),

Gene: Floof_11 Start: 7791, Stop: 8213, Start Num: 13

Candidate Starts for Floof_11:

(Start: 13 @7791 has 52 MA's), (31, 7884), (33, 7890), (34, 7905), (43, 7995), (47, 8034), (48, 8052), (63, 8163),

Gene: Gambol_12 Start: 8456, Stop: 8875, Start Num: 13

Candidate Starts for Gambol_12:

(Start: 13 @8456 has 52 MA's), (22, 8498), (57, 8780),

Gene: GardenState_11 Start: 8458, Stop: 8877, Start Num: 13

Candidate Starts for GardenState_11:

(Start: 13 @8458 has 52 MA's), (31, 8551), (33, 8557), (43, 8662), (47, 8701),

Gene: Gretchen_11 Start: 9337, Stop: 9759, Start Num: 13

Candidate Starts for Gretchen_11:

(Start: 13 @9337 has 52 MA's), (31, 9430), (33, 9436), (34, 9451), (43, 9541), (47, 9580), (48, 9598), (63, 9709),

Gene: Gustav_10 Start: 7169, Stop: 7594, Start Num: 11

Candidate Starts for Gustav_10:

(Start: 11 @7169 has 13 MA's), (25, 7235), (35, 7313), (39, 7337), (46, 7394), (61, 7538), (64, 7553), (69, 7580),

Gene: Halsey_15 Start: 8547, Stop: 8966, Start Num: 13

Candidate Starts for Halsey_15:

(Start: 13 @8547 has 52 MA's), (22, 8589), (57, 8871),

Gene: Heinz_11 Start: 7463, Stop: 7867, Start Num: 11

Candidate Starts for Heinz_11:

(1, 6851), (3, 6938), (6, 6986), (9, 7175), (Start: 11 @7463 has 13 MA's), (36, 7613), (44, 7670), (46, 7676), (51, 7736), (56, 7766), (64, 7835), (66, 7847), (68, 7853),

Gene: Hibiscus_11 Start: 7440, Stop: 7844, Start Num: 11

Candidate Starts for Hibiscus_11:

(Start: 11 @7440 has 13 MA's), (36, 7590), (43, 7641), (44, 7647), (46, 7653), (64, 7812), (68, 7830),

Gene: Honk_10 Start: 7323, Stop: 7739, Start Num: 13

Candidate Starts for Honk_10:

(Start: 13 @7323 has 52 MA's), (31, 7416), (37, 7473), (61, 7692),

Gene: IAmGroot_11 Start: 9102, Stop: 9521, Start Num: 13

Candidate Starts for IAmGroot_11:

(Start: 13 @9102 has 52 MA's), (31, 9195), (33, 9201), (43, 9306), (47, 9345),

Gene: Iter_12 Start: 9053, Stop: 9463, Start Num: 13

Candidate Starts for Iter_12:

(Start: 13 @9053 has 52 MA's), (26, 9122), (46, 9272), (60, 9383), (61, 9416),

Gene: IttyBittyPiggy_12 Start: 9041, Stop: 9454, Start Num: 13

Candidate Starts for IttyBittyPiggy_12:

(Start: 13 @9041 has 52 MA's), (26, 9110), (60, 9371), (61, 9404),

Gene: Janeemi_13 Start: 10130, Stop: 10543, Start Num: 13
Candidate Starts for Janeemi_13:
(Start: 13 @10130 has 52 MA's), (23, 10175), (43, 10337), (46, 10349), (60, 10460), (61, 10493),

Gene: JasmineDragon_11 Start: 7286, Stop: 7681, Start Num: 15
Candidate Starts for JasmineDragon_11:
(Start: 15 @7286 has 2 MA's), (43, 7478),

Gene: Joemato_12 Start: 9040, Stop: 9453, Start Num: 13
Candidate Starts for Joemato_12:
(Start: 13 @9040 has 52 MA's), (26, 9109), (46, 9259), (60, 9370), (61, 9403),

Gene: JohnDoe_12 Start: 9038, Stop: 9451, Start Num: 13
Candidate Starts for JohnDoe_12:
(Start: 13 @9038 has 52 MA's), (26, 9107), (46, 9257), (60, 9368), (61, 9401),

Gene: Jojo24_11 Start: 7435, Stop: 7839, Start Num: 11
Candidate Starts for Jojo24_11:
(Start: 11 @7435 has 13 MA's), (28, 7525), (36, 7585), (43, 7636), (44, 7642), (46, 7648), (64, 7807),
(68, 7825),

Gene: Jstan_12 Start: 9019, Stop: 9429, Start Num: 13
Candidate Starts for Jstan_12:
(Start: 13 @9019 has 52 MA's), (26, 9088), (43, 9226), (46, 9238), (60, 9349), (61, 9382),

Gene: JuneStar_12 Start: 9135, Stop: 9548, Start Num: 13
Candidate Starts for JuneStar_12:
(Start: 13 @9135 has 52 MA's), (60, 9465), (61, 9498),

Gene: Kalimba_12 Start: 8456, Stop: 8875, Start Num: 13
Candidate Starts for Kalimba_12:
(Start: 13 @8456 has 52 MA's), (22, 8498), (57, 8780),

Gene: Kaylissa_12 Start: 9041, Stop: 9454, Start Num: 13
Candidate Starts for Kaylissa_12:
(Start: 13 @9041 has 52 MA's), (26, 9110), (46, 9260), (60, 9371), (61, 9404),

Gene: KeAlii_12 Start: 9073, Stop: 9474, Start Num: 17
Candidate Starts for KeAlii_12:
(Start: 17 @9073 has 2 MA's), (19, 9079), (46, 9280), (52, 9340), (61, 9424),

Gene: Lego_12 Start: 9039, Stop: 9452, Start Num: 13
Candidate Starts for Lego_12:
(Start: 13 @9039 has 52 MA's), (26, 9108), (46, 9258), (60, 9369), (61, 9402),

Gene: Liebe_11 Start: 7496, Stop: 7915, Start Num: 13
Candidate Starts for Liebe_11:
(Start: 13 @7496 has 52 MA's), (20, 7514), (31, 7601), (44, 7715), (61, 7865),

Gene: Lizalica_12 Start: 9025, Stop: 9438, Start Num: 13
Candidate Starts for Lizalica_12:
(Start: 13 @9025 has 52 MA's), (26, 9094), (46, 9244), (60, 9355), (61, 9388),

Gene: London_12 Start: 9019, Stop: 9429, Start Num: 13

Candidate Starts for London_12:

(Start: 13 @9019 has 52 MA's), (26, 9088), (43, 9226), (46, 9238), (60, 9349), (61, 9382),

Gene: MaGuCo_11 Start: 7435, Stop: 7851, Start Num: 14

Candidate Starts for MaGuCo_11:

(Start: 14 @7435 has 7 MA's), (18, 7444), (20, 7450), (22, 7474), (31, 7537), (44, 7651), (61, 7801),

Gene: Mabodamaca_11 Start: 8555, Stop: 8968, Start Num: 14

Candidate Starts for Mabodamaca_11:

(Start: 14 @8555 has 7 MA's), (37, 8696),

Gene: Mahdia_10 Start: 7171, Stop: 7596, Start Num: 11

Candidate Starts for Mahdia_10:

(Start: 11 @7171 has 13 MA's), (25, 7237), (35, 7315), (36, 7318), (39, 7339), (41, 7351), (44, 7390), (45, 7393), (61, 7540), (69, 7582),

Gene: Malibo_11 Start: 7740, Stop: 8135, Start Num: 11

Candidate Starts for Malibo_11:

(4, 7233), (7, 7287), (Start: 11 @7740 has 13 MA's), (19, 7752), (34, 7860), (36, 7884), (44, 7944), (50, 8001), (59, 8052), (64, 8103),

Gene: Maureen_11 Start: 7496, Stop: 7915, Start Num: 13

Candidate Starts for Maureen_11:

(Start: 13 @7496 has 52 MA's), (20, 7514), (31, 7601), (44, 7715), (61, 7865),

Gene: MiniMommy_10 Start: 7286, Stop: 7681, Start Num: 15

Candidate Starts for MiniMommy_10:

(Start: 15 @7286 has 2 MA's), (43, 7478),

Gene: MissSwiss_12 Start: 9018, Stop: 9434, Start Num: 13

Candidate Starts for MissSwiss_12:

(Start: 13 @9018 has 52 MA's), (24, 9066), (44, 9234),

Gene: Morrissey_11 Start: 7567, Stop: 7992, Start Num: 11

Candidate Starts for Morrissey_11:

(Start: 11 @7567 has 13 MA's), (18, 7576), (25, 7633), (36, 7714), (43, 7780), (46, 7792), (61, 7936), (62, 7939), (69, 7978),

Gene: Moss_14 Start: 8547, Stop: 8966, Start Num: 13

Candidate Starts for Moss_14:

(Start: 13 @8547 has 52 MA's), (22, 8589), (57, 8871),

Gene: Mudpuppy_12 Start: 9039, Stop: 9452, Start Num: 13

Candidate Starts for Mudpuppy_12:

(Start: 13 @9039 has 52 MA's), (26, 9108), (46, 9258), (60, 9369), (61, 9402),

Gene: Mysterium_12 Start: 8548, Stop: 8967, Start Num: 13

Candidate Starts for Mysterium_12:

(Start: 13 @8548 has 52 MA's), (22, 8590), (44, 8767), (57, 8872),

Gene: Niobe_12 Start: 9019, Stop: 9429, Start Num: 13

Candidate Starts for Niobe_12:

(Start: 13 @9019 has 52 MA's), (26, 9088), (43, 9226), (46, 9238), (60, 9349), (61, 9382),

Gene: Nitro_12 Start: 9042, Stop: 9452, Start Num: 13

Candidate Starts for Nitro_12:

(Start: 13 @9042 has 52 MA's), (23, 9087), (26, 9111), (60, 9372), (61, 9405),

Gene: ObiToo_12 Start: 9222, Stop: 9635, Start Num: 13

Candidate Starts for ObiToo_12:

(Start: 13 @9222 has 52 MA's), (26, 9291), (43, 9429), (46, 9441), (60, 9552), (61, 9585),

Gene: Percival_11 Start: 9171, Stop: 9593, Start Num: 13

Candidate Starts for Percival_11:

(Start: 13 @9171 has 52 MA's), (31, 9264), (33, 9270), (34, 9285), (43, 9375), (47, 9414), (48, 9432), (63, 9543),

Gene: Phives_13 Start: 10124, Stop: 10537, Start Num: 13

Candidate Starts for Phives_13:

(Start: 13 @10124 has 52 MA's), (23, 10169), (46, 10343), (60, 10454), (61, 10487),

Gene: Pixelle_12 Start: 9067, Stop: 9480, Start Num: 13

Candidate Starts for Pixelle_12:

(Start: 13 @9067 has 52 MA's), (23, 9112), (60, 9397), (61, 9430),

Gene: Powerpuff_12 Start: 9090, Stop: 9503, Start Num: 13

Candidate Starts for Powerpuff_12:

(Start: 13 @9090 has 52 MA's), (26, 9159), (46, 9309), (60, 9420), (61, 9453),

Gene: Pumpkins_12 Start: 9144, Stop: 9557, Start Num: 13

Candidate Starts for Pumpkins_12:

(Start: 13 @9144 has 52 MA's), (26, 9213), (60, 9474), (61, 9507),

Gene: Puppies_10 Start: 7091, Stop: 7525, Start Num: 11

Candidate Starts for Puppies_10:

(Start: 11 @7091 has 13 MA's), (19, 7118), (30, 7211), (32, 7217), (36, 7265), (40, 7286), (42, 7298), (46, 7328), (53, 7400), (61, 7472),

Gene: Reedo_12 Start: 9091, Stop: 9489, Start Num: 17

Candidate Starts for Reedo_12:

(Start: 17 @9091 has 2 MA's), (43, 9286), (44, 9292), (49, 9352), (61, 9442),

Gene: Reyja_12 Start: 7576, Stop: 7980, Start Num: 11

Candidate Starts for Reyja_12:

(2, 7033), (8, 7147), (9, 7285), (Start: 11 @7576 has 13 MA's), (36, 7726), (43, 7777), (44, 7783), (46, 7789), (64, 7948), (66, 7960), (68, 7966),

Gene: Santhid_11 Start: 7444, Stop: 7848, Start Num: 11

Candidate Starts for Santhid_11:

(Start: 11 @7444 has 13 MA's), (36, 7594), (43, 7645), (44, 7651), (46, 7657), (64, 7816), (68, 7834),

Gene: ShakeltOph_11 Start: 7286, Stop: 7681, Start Num: 15

Candidate Starts for ShakeltOph_11:

(Start: 15 @7286 has 2 MA's), (43, 7478),

Gene: Simpson_13 Start: 9040, Stop: 9453, Start Num: 13
Candidate Starts for Simpson_13:
(Start: 13 @9040 has 52 MA's), (26, 9109), (46, 9259), (60, 9370), (61, 9403),

Gene: Snek_12 Start: 8127, Stop: 8540, Start Num: 13
Candidate Starts for Snek_12:
(Start: 13 @8127 has 52 MA's), (37, 8280), (67, 8523),

Gene: Soondubu_11 Start: 8928, Stop: 9338, Start Num: 14
Candidate Starts for Soondubu_11:
(Start: 14 @8928 has 7 MA's), (33, 9030), (61, 9291),

Gene: Sooty_12 Start: 8457, Stop: 8876, Start Num: 13
Candidate Starts for Sooty_12:
(Start: 13 @8457 has 52 MA's), (22, 8499), (57, 8781),

Gene: SpecialK_14 Start: 8454, Stop: 8873, Start Num: 13
Candidate Starts for SpecialK_14:
(Start: 13 @8454 has 52 MA's), (22, 8496), (57, 8778),

Gene: SuMoo_10 Start: 7515, Stop: 7928, Start Num: 14
Candidate Starts for SuMoo_10:
(Start: 14 @7515 has 7 MA's),

Gene: Sue2_12 Start: 9043, Stop: 9456, Start Num: 13
Candidate Starts for Sue2_12:
(10, 9007), (Start: 13 @9043 has 52 MA's),

Gene: Tallboi_12 Start: 9050, Stop: 9463, Start Num: 13
Candidate Starts for Tallboi_12:
(Start: 13 @9050 has 52 MA's), (23, 9095), (26, 9119), (60, 9380), (61, 9413),

Gene: Tarzan_11 Start: 7432, Stop: 7836, Start Num: 11
Candidate Starts for Tarzan_11:
(Start: 11 @7432 has 13 MA's), (28, 7522), (36, 7582), (44, 7639), (46, 7645), (64, 7804), (68, 7822),

Gene: Tbone_12 Start: 9033, Stop: 9446, Start Num: 13
Candidate Starts for Tbone_12:
(Start: 13 @9033 has 52 MA's), (26, 9102), (46, 9252), (60, 9363), (61, 9396),

Gene: TforTroy_12 Start: 9164, Stop: 9577, Start Num: 13
Candidate Starts for TforTroy_12:
(Start: 13 @9164 has 52 MA's), (60, 9494), (61, 9527),

Gene: Tian_12 Start: 9064, Stop: 9477, Start Num: 13
Candidate Starts for Tian_12:
(Start: 13 @9064 has 52 MA's), (23, 9109), (46, 9283), (60, 9394), (61, 9427),

Gene: Trine_10 Start: 7087, Stop: 7506, Start Num: 11
Candidate Starts for Trine_10:
(Start: 11 @7087 has 13 MA's), (25, 7156), (36, 7240), (45, 7303), (61, 7450), (69, 7492),

Gene: Tuck_13 Start: 10079, Stop: 10489, Start Num: 13

Candidate Starts for Tuck_13:

(Start: 13 @10079 has 52 MA's), (23, 10124), (46, 10298), (60, 10409), (61, 10442),

Gene: Turab_12 Start: 9048, Stop: 9458, Start Num: 13

Candidate Starts for Turab_12:

(Start: 13 @9048 has 52 MA's), (23, 9093), (26, 9117), (60, 9378), (61, 9411),

Gene: Tutumahutu_12 Start: 9090, Stop: 9503, Start Num: 13

Candidate Starts for Tutumahutu_12:

(Start: 13 @9090 has 52 MA's), (26, 9159), (46, 9309), (60, 9420), (61, 9453),

Gene: Tweety19_12 Start: 8126, Stop: 8539, Start Num: 13

Candidate Starts for Tweety19_12:

(Start: 13 @8126 has 52 MA's), (37, 8279), (67, 8522),

Gene: Upyo_10 Start: 7111, Stop: 7524, Start Num: 11

Candidate Starts for Upyo_10:

(Start: 11 @7111 has 13 MA's), (18, 7120), (25, 7177), (35, 7258), (36, 7261), (40, 7282), (44, 7318), (45, 7321), (46, 7324), (61, 7468), (69, 7510),

Gene: UtzChips_10 Start: 8204, Stop: 8620, Start Num: 14

Candidate Starts for UtzChips_10:

(Start: 14 @8204 has 7 MA's), (47, 8444), (55, 8501),

Gene: VResidence_12 Start: 9113, Stop: 9535, Start Num: 13

Candidate Starts for VResidence_12:

(Start: 13 @9113 has 52 MA's), (44, 9335), (54, 9422), (58, 9443), (60, 9452),

Gene: VroomVroom_11 Start: 7298, Stop: 7693, Start Num: 15

Candidate Starts for VroomVroom_11:

(Start: 15 @7298 has 2 MA's), (43, 7490),

Gene: Warda_12 Start: 9036, Stop: 9449, Start Num: 13

Candidate Starts for Warda_12:

(Start: 13 @9036 has 52 MA's), (26, 9105), (46, 9255), (60, 9366), (61, 9399),

Gene: Widow_10 Start: 7082, Stop: 7516, Start Num: 11

Candidate Starts for Widow_10:

(Start: 11 @7082 has 13 MA's), (19, 7109), (30, 7202), (32, 7208), (36, 7256), (40, 7277), (42, 7289), (46, 7319), (53, 7391), (61, 7463),

Gene: Wildwest_13 Start: 9954, Stop: 10370, Start Num: 13

Candidate Starts for Wildwest_13:

(Start: 13 @9954 has 52 MA's), (37, 10107), (44, 10170), (58, 10278),

Gene: Yang_12 Start: 9134, Stop: 9547, Start Num: 13

Candidate Starts for Yang_12:

(Start: 13 @9134 has 52 MA's), (60, 9464), (61, 9497),

Gene: YesChef_12 Start: 9090, Stop: 9503, Start Num: 13

Candidate Starts for YesChef_12:

(Start: 13 @9090 has 52 MA's), (26, 9159), (46, 9309), (60, 9420), (61, 9453),

Gene: Zeta1847_10 Start: 7300, Stop: 7692, Start Num: 12
Candidate Starts for Zeta1847_10:
(Start: 12 @7300 has 1 MA's), (37, 7444), (38, 7453),