

Pham 202847



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 202847 Report

This analysis was run 01/18/25 on database version 583.

Pham number 202847 has 91 members, 14 are drafts.

Phages represented in each track:

- Track 1 : AinMach_8
- Track 2 : Soondubu_8, DrManhattan_8, Exile_8
- Track 3 : IttyBittyPiggy_8, Janeemi_9, Yang_8, Amyev_8, Tian_8, AEgle_8, Nitro_8, Turab_8, Cassia_8, Lizalica_8, Adumb2043_8, Pumpkins_8, Shaffner_8, LadyAstra_7
- Track 4 : Reedo_8, Adolin_8
- Track 5 : AGrandiflora_8, Cyan_8, Warda_8, YesChef_8, Tallboi_8, VResidence_8, Tbone_8, JohnDoe_8, Tutumahutu_8, Mudpuppy_8, Simpson_8, Lego_8, Tuck_9, Powerpuff_8, Joemato_8
- Track 6 : London_8, Eraser_8, Elezi_8, Asa16_8, Niobe_8, Jstan_8
- Track 7 : Pixelle_8, Phives_9
- Track 8 : JuneStar_8, Sue2_8
- Track 9 : ObiToo_8, Crewmate_9
- Track 10 : Berrie_8, Ascela_8
- Track 11 : Kaylissa_8
- Track 12 : KeAlii_8
- Track 13 : DrSierra_8
- Track 14 : lter_8
- Track 15 : MissSwiss_8
- Track 16 : Community_9
- Track 17 : TforTroy_8
- Track 18 : Wildwest_9
- Track 19 : MaGuCo_7, Liebe_7, Maureen_7
- Track 20 : Tweety19_8, Snek_8
- Track 21 : JasmineDragon_7, ShakeltOph_7, MiniMommy_7, VroomVroom_7
- Track 22 : Emotion_7
- Track 23 : SpecialK_8, Moss_8, Mysterium_8, Halsey_8, Ashes_8
- Track 24 : Sooty_8, Gambol_8, Cappuccino_8, Donkey_8, Kalimba_8
- Track 25 : Mabodamaca_8
- Track 26 : Honk_7
- Track 27 : Cen1621_7
- Track 28 : GardenState_8, IAmGroot_8
- Track 29 : Barnstormer_7, UtzChips_7
- Track 30 : Percival_8
- Track 31 : Gretchen_8
- Track 32 : Floof_7
- Track 33 : Zeta1847_7

- Track 34 : Caron_7
- Track 35 : SuMoo_7
- Track 36 : Attoomi_8

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

The start number called the most often in the published annotations is 9, it was called in 48 of the 77 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AEgle_8, AGrandiflora_8, Adolin_8, Adumb2043_8, AinMach_8, Amyev_8, Asa16_8, Ascela_8, Berrie_8, Cassia_8, Cen1621_7, Community_9, Crewmate_9, Cyan_8, DrManhattan_8, Elezi_8, Emotion_7, Eraser_8, Exile_8, IttyBittyPiggy_8, Janeemi_9, JasmineDragon_7, Joemato_8, JohnDoe_8, Jstan_8, JuneStar_8, Kaylissa_8, KeAlii_8, LadyAstra_7, Lego_8, Lizalica_8, London_8, MiniMommy_7, MissSwiss_8, Mudpuppy_8, Niobe_8, Nitro_8, ObiToo_8, Phives_9, Pixelle_8, Powerpuff_8, Pumpkins_8, Reedo_8, Shaffner_8, ShakeltOph_7, Simpson_8, Soondubu_8, Sue2_8, Tallboi_8, Tbone_8, TforTroy_8, Tian_8, Tuck_9, Turab_8, Tutumahutu_8, VResidence_8, VroomVroom_7, Warda_8, Wildwest_9, Yang_8, YesChef_8, Zeta1847_7,

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

- lter_8,

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

- Ashes_8, Attoomi_8, Barnstormer_7, Cappuccino_8, Caron_7, Donkey_8, DrSierra_8, Floof_7, Gambol_8, GardenState_8, Gretchen_8, Halsey_8, Honk_7, IAmGroot_8, Kalimba_8, Liebe_7, MaGuCo_7, Mabodamaca_8, Maureen_7, Moss_8, Mysterium_8, Percival_8, Snek_8, Sooty_8, SpecialK_8, SuMoo_7, Tweety19_8, UtzChips_7,

Summary by start number:

Start 1:

- Found in 1 of 91 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 77
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DrSierra_8 (AZ1),

Start 7:

- Found in 20 of 91 (22.0%) of genes in pham
- Manual Annotations of this start: 20 of 77
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ashes_8 (AZ5), Barnstormer_7 (EH), Cappuccino_8 (AZ5), Caron_7 (EH), Donkey_8 (AZ5), Floof_7 (EH), Gambol_8 (AZ5), GardenState_8 (EH), Gretchen_8 (EH), Halsey_8 (AZ5), IAmGroot_8 (EH), Kalimba_8 (AZ5), Mabodamaca_8 (EH), Moss_8 (AZ5), Mysterium_8 (AZ5), Percival_8 (EH), Sooty_8 (AZ5), SpecialK_8 (AZ5), SuMoo_7 (EH), UtzChips_7 (EH),

Start 8:

- Found in 5 of 91 (5.5%) of genes in pham
- Manual Annotations of this start: 5 of 77
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Liebe_7 (AZ2), MaGuCo_7 (AZ2), Maureen_7 (AZ2), Snek_8 (AZ3), Tweety19_8 (AZ3),

Start 9:

- Found in 63 of 91 (69.2%) of genes in pham
- Manual Annotations of this start: 48 of 77
- Called 98.4% of time when present
- Phage (with cluster) where this start called: AEgle_8 (AZ1), AGrandiflora_8 (AZ1), Adolin_8 (AZ1), Adumb2043_8 (AZ1), AinMach_8 (AZ), Amyev_8 (AZ1), Asa16_8 (AZ1), Ascela_8 (AZ1), Berrie_8 (AZ1), Cassia_8 (AZ1), Cen1621_7 (EH), Community_9 (AZ1), Crewmate_9 (AZ1), Cyan_8 (AZ1), DrManhattan_8 (AZ1), Elezi_8 (AZ1), Emotion_7 (AZ4), Eraser_8 (AZ1), Exile_8 (AZ), IttyBittyPiggy_8 (AZ1), Janeemi_9 (AZ1), JasmineDragon_7 (AZ4), Joemato_8 (AZ1), JohnDoe_8 (AZ1), Jstan_8 (AZ1), JuneStar_8 (AZ1), Kaylissa_8 (AZ1), KeAlii_8 (AZ1), LadyAstra_7 (AZ4), Lego_8 (AZ1), Lizalica_8 (AZ1), London_8 (AZ1), MiniMommy_7 (AZ4), MissSwiss_8 (AZ1), Mudpuppy_8 (AZ1), Niobe_8 (AZ1), Nitro_8 (AZ1), ObiToo_8 (AZ1), Phives_9 (AZ1), Pixelle_8 (AZ1), Powerpuff_8 (AZ1), Pumpkins_8 (AZ1), Reedo_8 (AZ1), Shaffner_8 (AZ1), ShakeltOph_7 (AZ4), Simpson_8 (AZ1), Soondubu_8 (AZ), Sue2_8 (AZ1), Tallboi_8 (AZ1), Tbone_8 (AZ1), TforTroy_8 (AZ1), Tian_8 (AZ1), Tuck_9 (AZ1), Turab_8 (AZ1), Tutumahutu_8 (AZ1), VResidence_8 (AZ1), VroomVroom_7 (AZ4), Warda_8 (AZ1), Wildwest_9 (AZ1), Yang_8 (AZ1), YesChef_8 (AZ1), Zeta1847_7 (EH),

Start 10:

- Found in 1 of 91 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 77
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Honk_7 (EH),

Start 12:

- Found in 1 of 91 (1.1%) of genes in pham
- Manual Annotations of this start: 1 of 77
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Attoomi_8 (singleton),

Start 17:

- Found in 4 of 91 (4.4%) of genes in pham
- Manual Annotations of this start: 1 of 77
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Iter_8 (AZ1),

Summary by clusters:

There are 8 clusters represented in this pham: singleton, AZ3, EH, AZ1, AZ2, AZ, AZ4, AZ5,

Info for manual annotations of cluster AZ:

- Start number 9 was manually annotated 1 time for cluster AZ.

Info for manual annotations of cluster AZ1:

- Start number 1 was manually annotated 1 time for cluster AZ1.
- Start number 9 was manually annotated 42 times for cluster AZ1.
- Start number 17 was manually annotated 1 time for cluster AZ1.

Info for manual annotations of cluster AZ2:

- Start number 8 was manually annotated 3 times for cluster AZ2.

Info for manual annotations of cluster AZ3:

- Start number 8 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster AZ4:

- Start number 9 was manually annotated 3 times for cluster AZ4.

Info for manual annotations of cluster AZ5:

- Start number 7 was manually annotated 10 times for cluster AZ5.

Info for manual annotations of cluster EH:

- Start number 7 was manually annotated 10 times for cluster EH.
- Start number 9 was manually annotated 2 times for cluster EH.
- Start number 10 was manually annotated 1 time for cluster EH.

Gene Information:

Gene: AEgle_8 Start: 7858, Stop: 8265, Start Num: 9

Candidate Starts for AEgle_8:

(Start: 9 @7858 has 48 MA's), (25, 8050), (28, 8095),

Gene: AGrandiflora_8 Start: 7839, Stop: 8246, Start Num: 9

Candidate Starts for AGrandiflora_8:

(Start: 9 @7839 has 48 MA's), (25, 8031),

Gene: Adolin_8 Start: 7854, Stop: 8258, Start Num: 9

Candidate Starts for Adolin_8:

(Start: 9 @7854 has 48 MA's), (22, 8034),

Gene: Adumb2043_8 Start: 7857, Stop: 8264, Start Num: 9

Candidate Starts for Adumb2043_8:

(Start: 9 @7857 has 48 MA's), (25, 8049), (28, 8094),

Gene: AinMach_8 Start: 7070, Stop: 7495, Start Num: 9

Candidate Starts for AinMach_8:

(2, 7010), (Start: 9 @7070 has 48 MA's), (18, 7163), (20, 7217), (25, 7262), (32, 7361), (38, 7481),

Gene: Amyev_8 Start: 7873, Stop: 8280, Start Num: 9

Candidate Starts for Amyev_8:

(Start: 9 @7873 has 48 MA's), (25, 8065), (28, 8110),

Gene: Asa16_8 Start: 7826, Stop: 8233, Start Num: 9

Candidate Starts for Asa16_8:

(Start: 9 @7826 has 48 MA's), (24, 8015), (25, 8018), (27, 8024), (28, 8063),

Gene: Ascela_8 Start: 7852, Stop: 8259, Start Num: 9
Candidate Starts for Ascela_8:
(Start: 9 @7852 has 48 MA's), (Start: 17 @7909 has 1 MA's), (25, 8044), (28, 8089),

Gene: Ashes_8 Start: 7343, Stop: 7810, Start Num: 7
Candidate Starts for Ashes_8:
(3, 7292), (Start: 7 @7343 has 20 MA's), (23, 7535), (29, 7616),

Gene: Attoomi_8 Start: 6589, Stop: 6960, Start Num: 12
Candidate Starts for Attoomi_8:
(Start: 12 @6589 has 1 MA's), (13, 6598), (14, 6607), (23, 6751), (31, 6856), (33, 6883), (36, 6934),

Gene: Barnstormer_7 Start: 7106, Stop: 7585, Start Num: 7
Candidate Starts for Barnstormer_7:
(5, 7100), (Start: 7 @7106 has 20 MA's), (41, 7577),

Gene: Berrie_8 Start: 7831, Stop: 8238, Start Num: 9
Candidate Starts for Berrie_8:
(Start: 9 @7831 has 48 MA's), (Start: 17 @7888 has 1 MA's), (25, 8023), (28, 8068),

Gene: Cappuccino_8 Start: 7252, Stop: 7719, Start Num: 7
Candidate Starts for Cappuccino_8:
(3, 7201), (Start: 7 @7252 has 20 MA's), (23, 7444), (29, 7525), (34, 7576),

Gene: Caron_7 Start: 7134, Stop: 7613, Start Num: 7
Candidate Starts for Caron_7:
(Start: 7 @7134 has 20 MA's), (39, 7554), (41, 7605),

Gene: Cassia_8 Start: 7956, Stop: 8351, Start Num: 9
Candidate Starts for Cassia_8:
(Start: 9 @7956 has 48 MA's), (25, 8148), (28, 8193),

Gene: Cen1621_7 Start: 6257, Stop: 6748, Start Num: 9
Candidate Starts for Cen1621_7:
(Start: 9 @6257 has 48 MA's), (40, 6710),

Gene: Community_9 Start: 8908, Stop: 9315, Start Num: 9
Candidate Starts for Community_9:
(Start: 9 @8908 has 48 MA's), (22, 9088), (24, 9097), (25, 9100), (27, 9106),

Gene: Crewmate_9 Start: 8291, Stop: 8698, Start Num: 9
Candidate Starts for Crewmate_9:
(Start: 9 @8291 has 48 MA's), (22, 8471), (25, 8483), (28, 8528),

Gene: Cyan_8 Start: 7843, Stop: 8250, Start Num: 9
Candidate Starts for Cyan_8:
(Start: 9 @7843 has 48 MA's), (25, 8035),

Gene: Donkey_8 Start: 7252, Stop: 7719, Start Num: 7
Candidate Starts for Donkey_8:
(3, 7201), (Start: 7 @7252 has 20 MA's), (23, 7444), (29, 7525), (34, 7576),

Gene: DrManhattan_8 Start: 7844, Stop: 8248, Start Num: 9

Candidate Starts for DrManhattan_8:
(Start: 9 @7844 has 48 MA's), (22, 8024), (25, 8036),

Gene: DrSierra_8 Start: 7783, Stop: 8259, Start Num: 1
Candidate Starts for DrSierra_8:
(Start: 1 @7783 has 1 MA's), (4, 7828), (11, 7855),

Gene: Elezi_8 Start: 7827, Stop: 8234, Start Num: 9
Candidate Starts for Elezi_8:
(Start: 9 @7827 has 48 MA's), (24, 8016), (25, 8019), (27, 8025), (28, 8064),

Gene: Emotion_7 Start: 6195, Stop: 6596, Start Num: 9
Candidate Starts for Emotion_7:
(Start: 9 @6195 has 48 MA's),

Gene: Eraser_8 Start: 7827, Stop: 8234, Start Num: 9
Candidate Starts for Eraser_8:
(Start: 9 @7827 has 48 MA's), (24, 8016), (25, 8019), (27, 8025), (28, 8064),

Gene: Exile_8 Start: 7864, Stop: 8262, Start Num: 9
Candidate Starts for Exile_8:
(Start: 9 @7864 has 48 MA's), (22, 8044), (25, 8056),

Gene: Floof_7 Start: 6625, Stop: 7029, Start Num: 7
Candidate Starts for Floof_7:
(Start: 7 @6625 has 20 MA's), (16, 6670), (29, 6895), (30, 6901),

Gene: Gambol_8 Start: 7252, Stop: 7719, Start Num: 7
Candidate Starts for Gambol_8:
(3, 7201), (Start: 7 @7252 has 20 MA's), (23, 7444), (29, 7525), (34, 7576),

Gene: GardenState_8 Start: 7336, Stop: 7818, Start Num: 7
Candidate Starts for GardenState_8:
(Start: 7 @7336 has 20 MA's), (16, 7387),

Gene: Gretchen_8 Start: 8203, Stop: 8691, Start Num: 7
Candidate Starts for Gretchen_8:
(Start: 7 @8203 has 20 MA's), (16, 8248), (29, 8473), (33, 8518), (37, 8611),

Gene: Halsey_8 Start: 7343, Stop: 7810, Start Num: 7
Candidate Starts for Halsey_8:
(3, 7292), (Start: 7 @7343 has 20 MA's), (23, 7535), (29, 7616),

Gene: Honk_7 Start: 6227, Stop: 6709, Start Num: 10
Candidate Starts for Honk_7:
(Start: 10 @6227 has 1 MA's), (21, 6386), (26, 6416), (36, 6587), (40, 6665),

Gene: IAmGroot_8 Start: 7980, Stop: 8462, Start Num: 7
Candidate Starts for IAmGroot_8:
(Start: 7 @7980 has 20 MA's), (16, 8031),

Gene: Iter_8 Start: 7909, Stop: 8259, Start Num: 17
Candidate Starts for Iter_8:

(Start: 9 @7852 has 48 MA's), (Start: 17 @7909 has 1 MA's), (25, 8044), (28, 8089),

Gene: IttyBittyPiggy_8 Start: 7843, Stop: 8253, Start Num: 9

Candidate Starts for IttyBittyPiggy_8:

(Start: 9 @7843 has 48 MA's), (25, 8035), (28, 8080),

Gene: Janeemi_9 Start: 8938, Stop: 9369, Start Num: 9

Candidate Starts for Janeemi_9:

(Start: 9 @8938 has 48 MA's), (25, 9130), (28, 9175),

Gene: JasmineDragon_7 Start: 6172, Stop: 6573, Start Num: 9

Candidate Starts for JasmineDragon_7:

(Start: 9 @6172 has 48 MA's), (28, 6409),

Gene: Joemato_8 Start: 7843, Stop: 8250, Start Num: 9

Candidate Starts for Joemato_8:

(Start: 9 @7843 has 48 MA's), (25, 8035),

Gene: JohnDoe_8 Start: 7841, Stop: 8248, Start Num: 9

Candidate Starts for JohnDoe_8:

(Start: 9 @7841 has 48 MA's), (25, 8033),

Gene: Jstan_8 Start: 7827, Stop: 8234, Start Num: 9

Candidate Starts for Jstan_8:

(Start: 9 @7827 has 48 MA's), (24, 8016), (25, 8019), (27, 8025), (28, 8064),

Gene: JuneStar_8 Start: 7957, Stop: 8352, Start Num: 9

Candidate Starts for JuneStar_8:

(Start: 9 @7957 has 48 MA's), (28, 8194),

Gene: Kalimba_8 Start: 7252, Stop: 7719, Start Num: 7

Candidate Starts for Kalimba_8:

(3, 7201), (Start: 7 @7252 has 20 MA's), (23, 7444), (29, 7525), (34, 7576),

Gene: Kaylissa_8 Start: 7844, Stop: 8251, Start Num: 9

Candidate Starts for Kaylissa_8:

(Start: 9 @7844 has 48 MA's), (25, 8036),

Gene: KeAlii_8 Start: 7870, Stop: 8277, Start Num: 9

Candidate Starts for KeAlii_8:

(Start: 9 @7870 has 48 MA's), (Start: 17 @7927 has 1 MA's),

Gene: LadyAstra_7 Start: 6168, Stop: 6569, Start Num: 9

Candidate Starts for LadyAstra_7:

(Start: 9 @6168 has 48 MA's), (25, 6360), (28, 6405),

Gene: Lego_8 Start: 7842, Stop: 8249, Start Num: 9

Candidate Starts for Lego_8:

(Start: 9 @7842 has 48 MA's), (25, 8034),

Gene: Liebe_7 Start: 6336, Stop: 6731, Start Num: 8

Candidate Starts for Liebe_7:

(Start: 8 @6336 has 5 MA's), (25, 6528), (35, 6657),

Gene: Lizalica_8 Start: 7834, Stop: 8241, Start Num: 9

Candidate Starts for Lizalica_8:

(Start: 9 @7834 has 48 MA's), (25, 8026), (28, 8071),

Gene: London_8 Start: 7827, Stop: 8234, Start Num: 9

Candidate Starts for London_8:

(Start: 9 @7827 has 48 MA's), (24, 8016), (25, 8019), (27, 8025), (28, 8064),

Gene: MaGuCo_7 Start: 6195, Stop: 6590, Start Num: 8

Candidate Starts for MaGuCo_7:

(Start: 8 @6195 has 5 MA's), (25, 6387), (35, 6516),

Gene: Mabodamaca_8 Start: 7413, Stop: 7892, Start Num: 7

Candidate Starts for Mabodamaca_8:

(Start: 7 @7413 has 20 MA's), (30, 7689), (41, 7884),

Gene: Maureen_7 Start: 6336, Stop: 6731, Start Num: 8

Candidate Starts for Maureen_7:

(Start: 8 @6336 has 5 MA's), (25, 6528), (35, 6657),

Gene: MiniMommy_7 Start: 6172, Stop: 6573, Start Num: 9

Candidate Starts for MiniMommy_7:

(Start: 9 @6172 has 48 MA's), (28, 6409),

Gene: MissSwiss_8 Start: 7857, Stop: 8261, Start Num: 9

Candidate Starts for MissSwiss_8:

(Start: 9 @7857 has 48 MA's), (19, 7992), (22, 8037), (25, 8049),

Gene: Moss_8 Start: 7343, Stop: 7810, Start Num: 7

Candidate Starts for Moss_8:

(3, 7292), (Start: 7 @7343 has 20 MA's), (23, 7535), (29, 7616),

Gene: Mudpuppy_8 Start: 7842, Stop: 8249, Start Num: 9

Candidate Starts for Mudpuppy_8:

(Start: 9 @7842 has 48 MA's), (25, 8034),

Gene: Mysterium_8 Start: 7344, Stop: 7811, Start Num: 7

Candidate Starts for Mysterium_8:

(3, 7293), (Start: 7 @7344 has 20 MA's), (23, 7536), (29, 7617),

Gene: Niobe_8 Start: 7827, Stop: 8234, Start Num: 9

Candidate Starts for Niobe_8:

(Start: 9 @7827 has 48 MA's), (24, 8016), (25, 8019), (27, 8025), (28, 8064),

Gene: Nitro_8 Start: 7844, Stop: 8251, Start Num: 9

Candidate Starts for Nitro_8:

(Start: 9 @7844 has 48 MA's), (25, 8036), (28, 8081),

Gene: ObiToo_8 Start: 8041, Stop: 8436, Start Num: 9

Candidate Starts for ObiToo_8:

(Start: 9 @8041 has 48 MA's), (22, 8221), (25, 8233), (28, 8278),

Gene: Percival_8 Start: 8037, Stop: 8525, Start Num: 7
Candidate Starts for Percival_8:
(Start: 7 @8037 has 20 MA's), (16, 8082), (25, 8232), (29, 8307), (33, 8352), (37, 8445),

Gene: Phives_9 Start: 8933, Stop: 9340, Start Num: 9
Candidate Starts for Phives_9:
(Start: 9 @8933 has 48 MA's), (19, 9068), (25, 9125), (28, 9170),

Gene: Pixelle_8 Start: 7876, Stop: 8283, Start Num: 9
Candidate Starts for Pixelle_8:
(Start: 9 @7876 has 48 MA's), (19, 8011), (25, 8068), (28, 8113),

Gene: Powerpuff_8 Start: 7893, Stop: 8300, Start Num: 9
Candidate Starts for Powerpuff_8:
(Start: 9 @7893 has 48 MA's), (25, 8085),

Gene: Pumpkins_8 Start: 7958, Stop: 8353, Start Num: 9
Candidate Starts for Pumpkins_8:
(Start: 9 @7958 has 48 MA's), (25, 8150), (28, 8195),

Gene: Reedo_8 Start: 7890, Stop: 8297, Start Num: 9
Candidate Starts for Reedo_8:
(Start: 9 @7890 has 48 MA's), (22, 8070),

Gene: Shaffner_8 Start: 7952, Stop: 8347, Start Num: 9
Candidate Starts for Shaffner_8:
(Start: 9 @7952 has 48 MA's), (25, 8144), (28, 8189),

Gene: ShakeltOph_7 Start: 6172, Stop: 6573, Start Num: 9
Candidate Starts for ShakeltOph_7:
(Start: 9 @6172 has 48 MA's), (28, 6409),

Gene: Simpson_8 Start: 7843, Stop: 8250, Start Num: 9
Candidate Starts for Simpson_8:
(Start: 9 @7843 has 48 MA's), (25, 8035),

Gene: Snek_8 Start: 6968, Stop: 7366, Start Num: 8
Candidate Starts for Snek_8:
(Start: 8 @6968 has 5 MA's),

Gene: Soondubu_8 Start: 7865, Stop: 8263, Start Num: 9
Candidate Starts for Soondubu_8:
(Start: 9 @7865 has 48 MA's), (22, 8045), (25, 8057),

Gene: Sooty_8 Start: 7253, Stop: 7720, Start Num: 7
Candidate Starts for Sooty_8:
(3, 7202), (Start: 7 @7253 has 20 MA's), (23, 7445), (29, 7526), (34, 7577),

Gene: SpecialK_8 Start: 7250, Stop: 7717, Start Num: 7
Candidate Starts for SpecialK_8:
(3, 7199), (Start: 7 @7250 has 20 MA's), (23, 7442), (29, 7523),

Gene: SuMoo_7 Start: 6373, Stop: 6852, Start Num: 7

Candidate Starts for SuMoo_7:
(Start: 7 @6373 has 20 MA's), (30, 6649), (41, 6844),

Gene: Sue2_8 Start: 7875, Stop: 8270, Start Num: 9
Candidate Starts for Sue2_8:
(Start: 9 @7875 has 48 MA's), (28, 8112),

Gene: Tallboi_8 Start: 7862, Stop: 8269, Start Num: 9
Candidate Starts for Tallboi_8:
(Start: 9 @7862 has 48 MA's), (25, 8054),

Gene: Tbone_8 Start: 7839, Stop: 8246, Start Num: 9
Candidate Starts for Tbone_8:
(Start: 9 @7839 has 48 MA's), (25, 8031),

Gene: TforTroy_8 Start: 7981, Stop: 8379, Start Num: 9
Candidate Starts for TforTroy_8:
(6, 7975), (Start: 9 @7981 has 48 MA's), (25, 8173), (28, 8218),

Gene: Tian_8 Start: 7873, Stop: 8280, Start Num: 9
Candidate Starts for Tian_8:
(Start: 9 @7873 has 48 MA's), (25, 8065), (28, 8110),

Gene: Tuck_9 Start: 8887, Stop: 9315, Start Num: 9
Candidate Starts for Tuck_9:
(Start: 9 @8887 has 48 MA's), (25, 9079),

Gene: Turab_8 Start: 7857, Stop: 8264, Start Num: 9
Candidate Starts for Turab_8:
(Start: 9 @7857 has 48 MA's), (25, 8049), (28, 8094),

Gene: Tutumahutu_8 Start: 7893, Stop: 8300, Start Num: 9
Candidate Starts for Tutumahutu_8:
(Start: 9 @7893 has 48 MA's), (25, 8085),

Gene: Tweety19_8 Start: 6967, Stop: 7365, Start Num: 8
Candidate Starts for Tweety19_8:
(Start: 8 @6967 has 5 MA's),

Gene: UtzChips_7 Start: 7094, Stop: 7573, Start Num: 7
Candidate Starts for UtzChips_7:
(5, 7088), (Start: 7 @7094 has 20 MA's), (41, 7565),

Gene: VResidence_8 Start: 7916, Stop: 8323, Start Num: 9
Candidate Starts for VResidence_8:
(Start: 9 @7916 has 48 MA's), (25, 8108),

Gene: VroomVroom_7 Start: 6184, Stop: 6585, Start Num: 9
Candidate Starts for VroomVroom_7:
(Start: 9 @6184 has 48 MA's), (28, 6421),

Gene: Warda_8 Start: 7839, Stop: 8246, Start Num: 9
Candidate Starts for Warda_8:

(Start: 9 @7839 has 48 MA's), (25, 8031),

Gene: Wildwest_9 Start: 8762, Stop: 9178, Start Num: 9

Candidate Starts for Wildwest_9:

(Start: 9 @8762 has 48 MA's), (25, 8954), (29, 9029),

Gene: Yang_8 Start: 7957, Stop: 8352, Start Num: 9

Candidate Starts for Yang_8:

(Start: 9 @7957 has 48 MA's), (25, 8149), (28, 8194),

Gene: YesChef_8 Start: 7893, Stop: 8300, Start Num: 9

Candidate Starts for YesChef_8:

(Start: 9 @7893 has 48 MA's), (25, 8085),

Gene: Zeta1847_7 Start: 6205, Stop: 6684, Start Num: 9

Candidate Starts for Zeta1847_7:

(Start: 9 @6205 has 48 MA's), (15, 6235), (42, 6679),