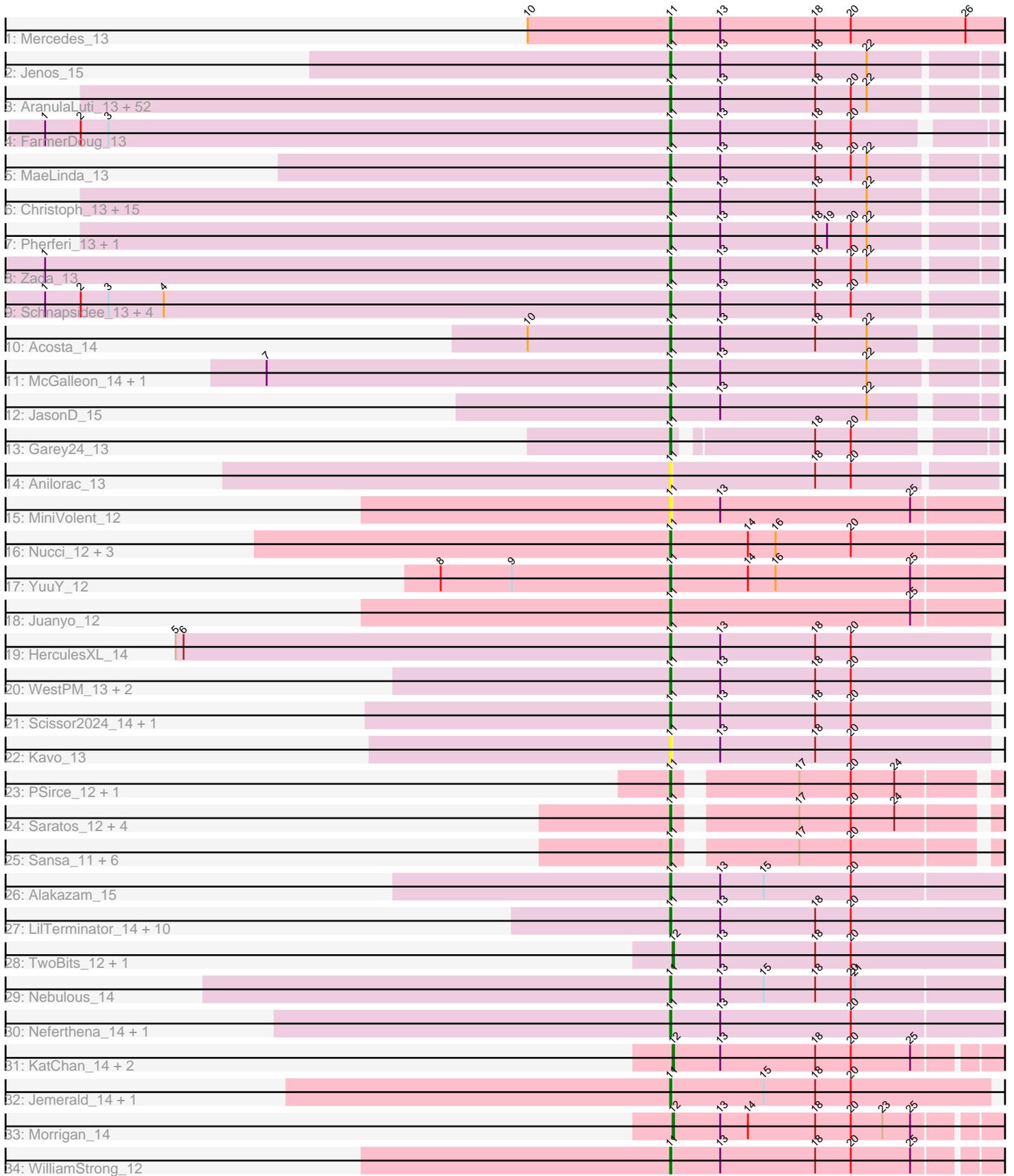


Pham 283585



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 283585 Report

This analysis was run 02/23/26 on database version 636.

Pham number 283585 has 139 members, 16 are drafts.

Phages represented in each track:

- Track 1 : Mercedes_13
- Track 2 : Jenos_15
- Track 3 : AranulaLuti_13, Ilzat_13, HanSolo_13, Teagan_13, Janus167_13, KannH_13, Phriends_13, JasperRussell_13, RosieMae_13, Rog141_13, Sedgewig_13, MrWorldwide_13, Rapheph_13, Byron23_13, Nagem_13, Shee_13, NickSell_13, Gargoyle_13, Gubbabump_13, CoraRita_13, Martin_14, Jerbirus_13, HankSprout_14, Chako_13, Bandik_13, Ludgate_13, TatarkaPM_13, Exploradora_13, SJay_13, PhredFlintston_13, Benjal Lauren_13, TinSulphur_13, StingRay_13, Riyhil_13, Inventa_13, JeriBeth_13, KellyGreen_13, Dothraki_13, SolidSnake_13, OldNelly_13, Kouch_13, Papafritta_13, StirfryIV_13, ParleG_13, BeautPeep30_13, Stanktossa_13, Duocatuli_13, Symere_13, Clancy_13, Winzigespinne_13, HungryHenry_13, Phiderman_13, Phireproof_13
- Track 4 : FarmerDoug_13
- Track 5 : MaeLinda_13
- Track 6 : Christoph_13, Merida02_13, Delphidian_13, Oats_13, Tenda_13, Kale_13, ManRay_13, Bonino_13, SoilGremlin_13, Asta_13, Gershwin_13, TeddyBear_13, Aubergine_13, MillyPhilly_13, Espinosa_13, Pocket_13
- Track 7 : Pherferi_13, Kurt1_13
- Track 8 : Zada_13
- Track 9 : Schnapsidee_13, Peppino_13, Raccoon_13, BeeBee8_14, Redfield_13
- Track 10 : Acosta_14
- Track 11 : McGalleon_14, CarisSwetlik_16
- Track 12 : JasonD_15
- Track 13 : Garey24_13
- Track 14 : Anilorac_13
- Track 15 : MiniVolent_12
- Track 16 : Nucci_12, Carostasia_12, Mandalorian_12, Quartz_12
- Track 17 : YuuY_12
- Track 18 : Juanyo_12
- Track 19 : HerculesXL_14
- Track 20 : WestPM_13, Penta_13, Schimmels22_14
- Track 21 : Scissor2024_14, Tinyman4_14
- Track 22 : Kavo_13
- Track 23 : PSirce_12, Xebius_11
- Track 24 : Saratos_12, Finny_12, Eleri_12, Glamour_11, Shamu_12
- Track 25 : Sansa_11, ChikPic_12, Zenitsu_12, MCubed_12, ColaCorta_12, Andromedas_12, Phanita_12

- Track 26 : Alakazam_15
- Track 27 : LilTerminator_14, Hasitha_14, CaptainRex_14, Greenlvy_14, Zepp_15, Fulton_14, Librie_14, QuadZero_14, Zayuliv_14, Wardwill_15, BaronJohn_14
- Track 28 : TwoBits_12, Ixel_13
- Track 29 : Nebulous_14
- Track 30 : Neferthena_14, Clock_14
- Track 31 : KatChan_14, Chepli_14, Luna18_14
- Track 32 : Jemerald_14, Juicer_14
- Track 33 : Morigan_14
- Track 34 : WilliamStrong_12

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

The start number called the most often in the published annotations is 11, it was called in 118 of the 123 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acosta_14, Alakazam_15, Andromedas_12, Anilorac_13, AranulaLuti_13, Asta_13, Aubergine_13, Bandik_13, BaronJohn_14, BeautPeep30_13, BeeBee8_14, Benjalauren_13, Bonino_13, Byron23_13, CaptainRex_14, CarisSwetlik_16, Carostasia_12, Chako_13, ChikPic_12, Christoph_13, Clancy_13, Clock_14, ColaCorta_12, CoraRita_13, Delphidian_13, Dothraki_13, Duocatuli_13, Eleri_12, Espinosa_13, Exploradora_13, FarmerDoug_13, Finny_12, Fulton_14, Garey24_13, Gargoyle_13, Gershwin_13, Glamour_11, Greenlvy_14, Gubbabump_13, HanSolo_13, HankSprout_14, Hasitha_14, HerculesXL_14, HungryHenry_13, Ilzat_13, Inventa_13, Janus167_13, JasonD_15, JasperRussell_13, Jemerald_14, Jenos_15, Jerbirus_13, JeriBeth_13, Juanyo_12, Juicer_14, Kale_13, KannH_13, Kavo_13, KellyGreen_13, Kouch_13, Kurt1_13, Librie_14, LilTerminator_14, Ludgate_13, MCubed_12, MaeLinda_13, ManRay_13, Mandalorian_12, Martin_14, McGalleon_14, Mercedes_13, Merida02_13, MillyPhilly_13, MiniVolent_12, MrWorldwide_13, Nagem_13, Nebulous_14, Neferthena_14, NickSell_13, Nucci_12, Oats_13, OldNelly_13, PSirce_12, Papafritta_13, ParleG_13, Penta_13, Peppino_13, Phanita_12, Pherferi_13, Phiderman_13, Phireproof_13, PhredFlintston_13, Phriends_13, Pocket_13, QuadZero_14, Quartz_12, Raccoon_13, Rapheph_13, Redfield_13, Riyhil_13, Rog141_13, RosieMae_13, SJay_13, Sansa_11, Saratos_12, Schimmels22_14, Schnapsidee_13, Scissor2024_14, Sedgewig_13, Shamu_12, Shee_13, SoilGremlin_13, SolidSnake_13, Stanktossa_13, StingRay_13, StirfryIV_13, Symere_13, TatarkaPM_13, Teagan_13, TeddyBear_13, Tenda_13, TinSulphur_13, Tinyman4_14, Wardwill_15, WestPM_13, WilliamStrong_12, Winzigespinne_13, Xebius_11, YuuY_12, Zada_13, Zayuliv_14, Zenitsu_12, Zepp_15,

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

-

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

- Chepli_14, Ixel_13, KatChan_14, Luna18_14, Morigan_14, TwoBits_12,

Summary by start number:

Start 11:

- Found in 133 of 139 (95.7%) of genes in pham
- Manual Annotations of this start: 118 of 123
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Acosta_14 (EA1), Alakazam_15 (EA5), Andromedas_12 (EA2), Anilorac_13 (EA1), AranulaLuti_13 (EA1), Asta_13 (EA1), Aubergine_13 (EA1), Bandik_13 (EA1), BaronJohn_14 (EA5), BeautPeep30_13 (EA1), BeeBee8_14 (EA1), Benjalauen_13 (EA1), Bonino_13 (EA1), Byron23_13 (EA1), CaptainRex_14 (EA5), CarisSwetlik_16 (EA1), Carostasia_12 (EA10), Chako_13 (EA1), ChikPic_12 (EA2), Christoph_13 (EA1), Clancy_13 (EA1), Clock_14 (EA5), ColaCorta_12 (EA2), CoraRita_13 (EA1), Delphidian_13 (EA1), Dothraki_13 (EA1), Duocatuli_13 (EA1), Eleri_12 (EA2), Espinosa_13 (EA1), Exploradora_13 (EA1), FarmerDoug_13 (EA1), Finny_12 (EA2), Fulton_14 (EA5), Garey24_13 (EA1), Gargoyle_13 (EA1), Gershwin_13 (EA1), Glamour_11 (EA2), Greenlvy_14 (EA5), Gubbabump_13 (EA1), HanSolo_13 (EA1), HankSprout_14 (EA1), Hasitha_14 (EA5), HerculesXL_14 (EA1), HungryHenry_13 (EA1), Ilzat_13 (EA1), Inventa_13 (EA1), Janus167_13 (EA1), JasonD_15 (EA1), JasperRussell_13 (EA1), Jemerald_14 (EA6), Jenos_15 (EA1), Jerbirus_13 (EA1), JeriBeth_13 (EA1), Juanyo_12 (EA10), Juicer_14 (EA6), Kale_13 (EA1), KannH_13 (EA1), Kavo_13 (EA1), KellyGreen_13 (EA1), Kouch_13 (EA1), Kurt1_13 (EA1), Librie_14 (EA5), LilTerminator_14 (EA5), Ludgate_13 (EA1), MCubed_12 (EA2), MaeLinda_13 (EA1), ManRay_13 (EA1), Mandalorian_12 (EA10), Martin_14 (EA1), McGalleon_14 (EA1), Mercedes_13 (EA), Merida02_13 (EA1), MillyPhilly_13 (EA1), MiniVolent_12 (EA10), MrWorldwide_13 (EA1), Nagem_13 (EA1), Nebulous_14 (EA5), Neferthena_14 (EA5), NickSell_13 (EA1), Nucci_12 (EA10), Oats_13 (EA1), OldNelly_13 (EA1), PSirce_12 (EA2), Papafritta_13 (EA1), ParleG_13 (EA1), Penta_13 (EA1), Peppino_13 (EA1), Phanita_12 (EA2), Pherferi_13 (EA1), Phiderman_13 (EA1), Phireproof_13 (EA1), PhredFlintston_13 (EA1), Phriends_13 (EA1), Pocket_13 (EA1), QuadZero_14 (EA5), Quartz_12 (EA10), Raccoon_13 (EA1), Rapheph_13 (EA1), Redfield_13 (EA1), Riyhil_13 (EA1), Rog141_13 (EA1), RosieMae_13 (EA1), SJay_13 (EA1), Sansa_11 (EA2), Saratos_12 (EA2), Schimmels22_14 (EA11), Schnapsidee_13 (EA1), Scissor2024_14 (EA11), Sedgewig_13 (EA1), Shamu_12 (EA2), Shee_13 (EA1), SoilGremlin_13 (EA1), SolidSnake_13 (EA1), Stanktossa_13 (EA1), StingRay_13 (EA1), StirfryIV_13 (EA1), Symere_13 (EA1), TatarkaPM_13 (EA1), Teagan_13 (EA1), TeddyBear_13 (EA1), Tenda_13 (EA1), TinSulphur_13 (EA1), Tinyman4_14 (EA11), Wardwill_15 (EA5), WestPM_13 (EA11), WilliamStrong_12 (EA6), Winzigespinne_13 (EA1), Xebius_11 (EA2), YuuY_12 (EA10), Zada_13 (EA1), Zayuliv_14 (EA5), Zenitsu_12 (EA2), Zepp_15 (EA5),

Start 12:

- Found in 6 of 139 (4.3%) of genes in pham
- Manual Annotations of this start: 5 of 123
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chepli_14 (EA6), Ixel_13 (EA11), KatChan_14 (EA6), Luna18_14 (EA6), Morigan_14 (EA6), TwoBits_12 (EA5),

Summary by clusters:

There are 7 clusters represented in this pham: EA11, EA10, EA, EA1, EA2, EA5, EA6,

Info for manual annotations of cluster EA:

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

Info for manual annotations of cluster EA1:

- Start number 11 was manually annotated 78 times for cluster EA1.

Info for manual annotations of cluster EA10:

- Start number 11 was manually annotated 6 times for cluster EA10.

Info for manual annotations of cluster EA11:

- Start number 11 was manually annotated 4 times for cluster EA11.
- Start number 12 was manually annotated 1 time for cluster EA11.

Info for manual annotations of cluster EA2:

- Start number 11 was manually annotated 13 times for cluster EA2.

Info for manual annotations of cluster EA5:

- Start number 11 was manually annotated 13 times for cluster EA5.

Info for manual annotations of cluster EA6:

- Start number 11 was manually annotated 3 times for cluster EA6.
- Start number 12 was manually annotated 4 times for cluster EA6.

Gene Information:

Gene: Acosta_14 Start: 7873, Stop: 8103, Start Num: 11

Candidate Starts for Acosta_14:

(10, 7765), (Start: 11 @7873 has 118 MA's), (13, 7909), (18, 7981), (22, 8020),

Gene: Alakazam_15 Start: 8832, Stop: 9137, Start Num: 11

Candidate Starts for Alakazam_15:

(Start: 11 @8832 has 118 MA's), (13, 8868), (15, 8901), (20, 8967),

Gene: Andromedas_12 Start: 7650, Stop: 7910, Start Num: 11

Candidate Starts for Andromedas_12:

(Start: 11 @7650 has 118 MA's), (17, 7728), (20, 7767),

Gene: Anilorac_13 Start: 8005, Stop: 8244, Start Num: 11

Candidate Starts for Anilorac_13:

(Start: 11 @8005 has 118 MA's), (18, 8113), (20, 8140),

Gene: AranulaLuti_13 Start: 7896, Stop: 8132, Start Num: 11

Candidate Starts for AranulaLuti_13:

(Start: 11 @7896 has 118 MA's), (13, 7932), (18, 8004), (20, 8031), (22, 8043),

Gene: Asta_13 Start: 7909, Stop: 8145, Start Num: 11

Candidate Starts for Asta_13:

(Start: 11 @7909 has 118 MA's), (13, 7945), (18, 8017), (22, 8056),

Gene: Aubergine_13 Start: 7909, Stop: 8145, Start Num: 11

Candidate Starts for Aubergine_13:

(Start: 11 @7909 has 118 MA's), (13, 7945), (18, 8017), (22, 8056),

Gene: Bandik_13 Start: 7600, Stop: 7836, Start Num: 11

Candidate Starts for Bandik_13:

(Start: 11 @7600 has 118 MA's), (13, 7636), (18, 7708), (20, 7735), (22, 7747),

Gene: BaronJohn_14 Start: 8032, Stop: 8364, Start Num: 11

Candidate Starts for BaronJohn_14:

(Start: 11 @8032 has 118 MA's), (13, 8068), (18, 8140), (20, 8167),

Gene: BeautPeep30_13 Start: 7606, Stop: 7842, Start Num: 11

Candidate Starts for BeautPeep30_13:

(Start: 11 @7606 has 118 MA's), (13, 7642), (18, 7714), (20, 7741), (22, 7753),

Gene: BeeBee8_14 Start: 8174, Stop: 8413, Start Num: 11

Candidate Starts for BeeBee8_14:

(1, 7700), (2, 7727), (3, 7748), (4, 7790), (Start: 11 @8174 has 118 MA's), (13, 8210), (18, 8282), (20, 8309),

Gene: Benjalauren_13 Start: 7896, Stop: 8132, Start Num: 11

Candidate Starts for Benjalauren_13:

(Start: 11 @7896 has 118 MA's), (13, 7932), (18, 8004), (20, 8031), (22, 8043),

Gene: Bonino_13 Start: 7886, Stop: 8122, Start Num: 11

Candidate Starts for Bonino_13:

(Start: 11 @7886 has 118 MA's), (13, 7922), (18, 7994), (22, 8033),

Gene: Byron23_13 Start: 7609, Stop: 7845, Start Num: 11

Candidate Starts for Byron23_13:

(Start: 11 @7609 has 118 MA's), (13, 7645), (18, 7717), (20, 7744), (22, 7756),

Gene: CaptainRex_14 Start: 8035, Stop: 8367, Start Num: 11

Candidate Starts for CaptainRex_14:

(Start: 11 @8035 has 118 MA's), (13, 8071), (18, 8143), (20, 8170),

Gene: CarisSwetlik_16 Start: 8364, Stop: 8600, Start Num: 11

Candidate Starts for CarisSwetlik_16:

(7, 8058), (Start: 11 @8364 has 118 MA's), (13, 8400), (22, 8511),

Gene: Carostasia_12 Start: 7815, Stop: 8102, Start Num: 11

Candidate Starts for Carostasia_12:

(Start: 11 @7815 has 118 MA's), (14, 7872), (16, 7893), (20, 7950),

Gene: Chako_13 Start: 7896, Stop: 8132, Start Num: 11

Candidate Starts for Chako_13:

(Start: 11 @7896 has 118 MA's), (13, 7932), (18, 8004), (20, 8031), (22, 8043),

Gene: Chepli_14 Start: 8030, Stop: 8344, Start Num: 12

Candidate Starts for Chepli_14:

(Start: 12 @8030 has 5 MA's), (13, 8066), (18, 8138), (20, 8165), (25, 8210),

Gene: ChikPic_12 Start: 7666, Stop: 7926, Start Num: 11

Candidate Starts for ChikPic_12:

(Start: 11 @7666 has 118 MA's), (17, 7744), (20, 7783),

Gene: Christoph_13 Start: 7907, Stop: 8143, Start Num: 11

Candidate Starts for Christoph_13:

(Start: 11 @7907 has 118 MA's), (13, 7943), (18, 8015), (22, 8054),

Gene: Clancy_13 Start: 7896, Stop: 8132, Start Num: 11

Candidate Starts for Clancy_13:

(Start: 11 @7896 has 118 MA's), (13, 7932), (18, 8004), (20, 8031), (22, 8043),

Gene: Clock_14 Start: 8762, Stop: 9085, Start Num: 11

Candidate Starts for Clock_14:

(Start: 11 @8762 has 118 MA's), (13, 8798), (20, 8897),

Gene: ColaCorta_12 Start: 7650, Stop: 7910, Start Num: 11

Candidate Starts for ColaCorta_12:

(Start: 11 @7650 has 118 MA's), (17, 7728), (20, 7767),

Gene: CoraRita_13 Start: 7896, Stop: 8132, Start Num: 11

Candidate Starts for CoraRita_13:

(Start: 11 @7896 has 118 MA's), (13, 7932), (18, 8004), (20, 8031), (22, 8043),

Gene: Delphidian_13 Start: 7603, Stop: 7839, Start Num: 11

Candidate Starts for Delphidian_13:

(Start: 11 @7603 has 118 MA's), (13, 7639), (18, 7711), (22, 7750),

Gene: Dothraki_13 Start: 7606, Stop: 7842, Start Num: 11

Candidate Starts for Dothraki_13:

(Start: 11 @7606 has 118 MA's), (13, 7642), (18, 7714), (20, 7741), (22, 7753),

Gene: Duocatuli_13 Start: 7896, Stop: 8132, Start Num: 11

Candidate Starts for Duocatuli_13:

(Start: 11 @7896 has 118 MA's), (13, 7932), (18, 8004), (20, 8031), (22, 8043),

Gene: Eleri_12 Start: 7663, Stop: 7923, Start Num: 11

Candidate Starts for Eleri_12:

(Start: 11 @7663 has 118 MA's), (17, 7741), (20, 7780), (24, 7813),

Gene: Espinosa_13 Start: 7907, Stop: 8143, Start Num: 11

Candidate Starts for Espinosa_13:

(Start: 11 @7907 has 118 MA's), (13, 7943), (18, 8015), (22, 8054),

Gene: Exploradora_13 Start: 7896, Stop: 8132, Start Num: 11

Candidate Starts for Exploradora_13:

(Start: 11 @7896 has 118 MA's), (13, 7932), (18, 8004), (20, 8031), (22, 8043),

Gene: FarmerDoug_13 Start: 7731, Stop: 7961, Start Num: 11

Candidate Starts for FarmerDoug_13:

(1, 7257), (2, 7284), (3, 7305), (Start: 11 @7731 has 118 MA's), (13, 7767), (18, 7839), (20, 7866),

Gene: Finny_12 Start: 7650, Stop: 7910, Start Num: 11

Candidate Starts for Finny_12:

(Start: 11 @7650 has 118 MA's), (17, 7728), (20, 7767), (24, 7800),

Gene: Fulton_14 Start: 8017, Stop: 8349, Start Num: 11

Candidate Starts for Fulton_14:

(Start: 11 @8017 has 118 MA's), (13, 8053), (18, 8125), (20, 8152),

Gene: Garey24_13 Start: 7889, Stop: 8104, Start Num: 11

Candidate Starts for Garey24_13:

(Start: 11 @7889 has 118 MA's), (18, 7982), (20, 8009),

Gene: Gargoyle_13 Start: 7606, Stop: 7842, Start Num: 11

Candidate Starts for Gargoyle_13:

(Start: 11 @7606 has 118 MA's), (13, 7642), (18, 7714), (20, 7741), (22, 7753),

Gene: Gershwin_13 Start: 7909, Stop: 8145, Start Num: 11

Candidate Starts for Gershwin_13:

(Start: 11 @7909 has 118 MA's), (13, 7945), (18, 8017), (22, 8056),

Gene: Glamour_11 Start: 7651, Stop: 7911, Start Num: 11

Candidate Starts for Glamour_11:

(Start: 11 @7651 has 118 MA's), (17, 7729), (20, 7768), (24, 7801),

Gene: Greenlvy_14 Start: 8034, Stop: 8366, Start Num: 11

Candidate Starts for Greenlvy_14:

(Start: 11 @8034 has 118 MA's), (13, 8070), (18, 8142), (20, 8169),

Gene: Gubbabump_13 Start: 7898, Stop: 8134, Start Num: 11

Candidate Starts for Gubbabump_13:

(Start: 11 @7898 has 118 MA's), (13, 7934), (18, 8006), (20, 8033), (22, 8045),

Gene: HanSolo_13 Start: 7896, Stop: 8132, Start Num: 11

Candidate Starts for HanSolo_13:

(Start: 11 @7896 has 118 MA's), (13, 7932), (18, 8004), (20, 8031), (22, 8043),

Gene: HankSprout_14 Start: 7776, Stop: 8012, Start Num: 11

Candidate Starts for HankSprout_14:

(Start: 11 @7776 has 118 MA's), (13, 7812), (18, 7884), (20, 7911), (22, 7923),

Gene: Hasitha_14 Start: 8035, Stop: 8367, Start Num: 11

Candidate Starts for Hasitha_14:

(Start: 11 @8035 has 118 MA's), (13, 8071), (18, 8143), (20, 8170),

Gene: HerculesXL_14 Start: 8142, Stop: 8444, Start Num: 11

Candidate Starts for HerculesXL_14:

(5, 7767), (6, 7773), (Start: 11 @8142 has 118 MA's), (13, 8178), (18, 8250), (20, 8277),

Gene: HungryHenry_13 Start: 7897, Stop: 8133, Start Num: 11

Candidate Starts for HungryHenry_13:

(Start: 11 @7897 has 118 MA's), (13, 7933), (18, 8005), (20, 8032), (22, 8044),

Gene: Ilzat_13 Start: 7896, Stop: 8132, Start Num: 11

Candidate Starts for Ilzat_13:

(Start: 11 @7896 has 118 MA's), (13, 7932), (18, 8004), (20, 8031), (22, 8043),

Gene: Inventa_13 Start: 7606, Stop: 7842, Start Num: 11

Candidate Starts for Inventa_13:

(Start: 11 @7606 has 118 MA's), (13, 7642), (18, 7714), (20, 7741), (22, 7753),

Gene: Ixel_13 Start: 7700, Stop: 8020, Start Num: 12

Candidate Starts for Ixel_13:

(Start: 12 @7700 has 5 MA's), (13, 7736), (18, 7808), (20, 7835),

Gene: Janus167_13 Start: 7896, Stop: 8132, Start Num: 11

Candidate Starts for Janus167_13:

(Start: 11 @7896 has 118 MA's), (13, 7932), (18, 8004), (20, 8031), (22, 8043),

Gene: JasonD_15 Start: 8034, Stop: 8264, Start Num: 11

Candidate Starts for JasonD_15:

(Start: 11 @8034 has 118 MA's), (13, 8070), (22, 8181),

Gene: JasperRussell_13 Start: 7896, Stop: 8132, Start Num: 11

Candidate Starts for JasperRussell_13:

(Start: 11 @7896 has 118 MA's), (13, 7932), (18, 8004), (20, 8031), (22, 8043),

Gene: Jemerald_14 Start: 8998, Stop: 9297, Start Num: 11

Candidate Starts for Jemerald_14:

(Start: 11 @8998 has 118 MA's), (15, 9067), (18, 9106), (20, 9133),

Gene: Jenos_15 Start: 8355, Stop: 8591, Start Num: 11

Candidate Starts for Jenos_15:

(Start: 11 @8355 has 118 MA's), (13, 8391), (18, 8463), (22, 8502),

Gene: Jerbirus_13 Start: 7896, Stop: 8132, Start Num: 11

Candidate Starts for Jerbirus_13:

(Start: 11 @7896 has 118 MA's), (13, 7932), (18, 8004), (20, 8031), (22, 8043),

Gene: JeriBeth_13 Start: 7743, Stop: 7979, Start Num: 11

Candidate Starts for JeriBeth_13:

(Start: 11 @7743 has 118 MA's), (13, 7779), (18, 7851), (20, 7878), (22, 7890),

Gene: Juanyo_12 Start: 7777, Stop: 8067, Start Num: 11

Candidate Starts for Juanyo_12:

(Start: 11 @7777 has 118 MA's), (25, 7957),

Gene: Juicer_14 Start: 8998, Stop: 9297, Start Num: 11

Candidate Starts for Juicer_14:

(Start: 11 @8998 has 118 MA's), (15, 9067), (18, 9106), (20, 9133),

Gene: Kale_13 Start: 7911, Stop: 8147, Start Num: 11

Candidate Starts for Kale_13:

(Start: 11 @7911 has 118 MA's), (13, 7947), (18, 8019), (22, 8058),

Gene: KannH_13 Start: 7896, Stop: 8132, Start Num: 11

Candidate Starts for KannH_13:

(Start: 11 @7896 has 118 MA's), (13, 7932), (18, 8004), (20, 8031), (22, 8043),

Gene: KatChan_14 Start: 8036, Stop: 8350, Start Num: 12

Candidate Starts for KatChan_14:

(Start: 12 @8036 has 5 MA's), (13, 8072), (18, 8144), (20, 8171), (25, 8216),

Gene: Kavo_13 Start: 7974, Stop: 8276, Start Num: 11
Candidate Starts for Kavo_13:
(Start: 11 @7974 has 118 MA's), (13, 8010), (18, 8082), (20, 8109),

Gene: KellyGreen_13 Start: 7896, Stop: 8132, Start Num: 11
Candidate Starts for KellyGreen_13:
(Start: 11 @7896 has 118 MA's), (13, 7932), (18, 8004), (20, 8031), (22, 8043),

Gene: Kouch_13 Start: 7896, Stop: 8132, Start Num: 11
Candidate Starts for Kouch_13:
(Start: 11 @7896 has 118 MA's), (13, 7932), (18, 8004), (20, 8031), (22, 8043),

Gene: Kurt1_13 Start: 7606, Stop: 7842, Start Num: 11
Candidate Starts for Kurt1_13:
(Start: 11 @7606 has 118 MA's), (13, 7642), (18, 7714), (19, 7723), (20, 7741), (22, 7753),

Gene: Librie_14 Start: 8035, Stop: 8367, Start Num: 11
Candidate Starts for Librie_14:
(Start: 11 @8035 has 118 MA's), (13, 8071), (18, 8143), (20, 8170),

Gene: LilTerminator_14 Start: 8041, Stop: 8373, Start Num: 11
Candidate Starts for LilTerminator_14:
(Start: 11 @8041 has 118 MA's), (13, 8077), (18, 8149), (20, 8176),

Gene: Ludgate_13 Start: 7600, Stop: 7836, Start Num: 11
Candidate Starts for Ludgate_13:
(Start: 11 @7600 has 118 MA's), (13, 7636), (18, 7708), (20, 7735), (22, 7747),

Gene: Luna18_14 Start: 8036, Stop: 8350, Start Num: 12
Candidate Starts for Luna18_14:
(Start: 12 @8036 has 5 MA's), (13, 8072), (18, 8144), (20, 8171), (25, 8216),

Gene: MCubed_12 Start: 7675, Stop: 7935, Start Num: 11
Candidate Starts for MCubed_12:
(Start: 11 @7675 has 118 MA's), (17, 7753), (20, 7792),

Gene: MaeLinda_13 Start: 7606, Stop: 7842, Start Num: 11
Candidate Starts for MaeLinda_13:
(Start: 11 @7606 has 118 MA's), (13, 7642), (18, 7714), (20, 7741), (22, 7753),

Gene: ManRay_13 Start: 7909, Stop: 8145, Start Num: 11
Candidate Starts for ManRay_13:
(Start: 11 @7909 has 118 MA's), (13, 7945), (18, 8017), (22, 8056),

Gene: Mandalorian_12 Start: 7814, Stop: 8101, Start Num: 11
Candidate Starts for Mandalorian_12:
(Start: 11 @7814 has 118 MA's), (14, 7871), (16, 7892), (20, 7949),

Gene: Martin_14 Start: 7606, Stop: 7842, Start Num: 11
Candidate Starts for Martin_14:
(Start: 11 @7606 has 118 MA's), (13, 7642), (18, 7714), (20, 7741), (22, 7753),

Gene: McGalleon_14 Start: 8474, Stop: 8710, Start Num: 11

Candidate Starts for McGalleon_14:

(7, 8168), (Start: 11 @8474 has 118 MA's), (13, 8510), (22, 8621),

Gene: Mercedes_13 Start: 7790, Stop: 8113, Start Num: 11

Candidate Starts for Mercedes_13:

(10, 7682), (Start: 11 @7790 has 118 MA's), (13, 7826), (18, 7898), (20, 7925), (26, 8012),

Gene: Merida02_13 Start: 7603, Stop: 7839, Start Num: 11

Candidate Starts for Merida02_13:

(Start: 11 @7603 has 118 MA's), (13, 7639), (18, 7711), (22, 7750),

Gene: MillyPhilly_13 Start: 7603, Stop: 7839, Start Num: 11

Candidate Starts for MillyPhilly_13:

(Start: 11 @7603 has 118 MA's), (13, 7639), (18, 7711), (22, 7750),

Gene: MiniVolent_12 Start: 7763, Stop: 8053, Start Num: 11

Candidate Starts for MiniVolent_12:

(Start: 11 @7763 has 118 MA's), (13, 7799), (25, 7943),

Gene: Morrigan_14 Start: 8937, Stop: 9251, Start Num: 12

Candidate Starts for Morrigan_14:

(Start: 12 @8937 has 5 MA's), (13, 8973), (14, 8994), (18, 9045), (20, 9072), (23, 9096), (25, 9117),

Gene: MrWorldwide_13 Start: 7606, Stop: 7842, Start Num: 11

Candidate Starts for MrWorldwide_13:

(Start: 11 @7606 has 118 MA's), (13, 7642), (18, 7714), (20, 7741), (22, 7753),

Gene: Nagem_13 Start: 7600, Stop: 7836, Start Num: 11

Candidate Starts for Nagem_13:

(Start: 11 @7600 has 118 MA's), (13, 7636), (18, 7708), (20, 7735), (22, 7747),

Gene: Nebulous_14 Start: 8771, Stop: 9094, Start Num: 11

Candidate Starts for Nebulous_14:

(Start: 11 @8771 has 118 MA's), (13, 8807), (15, 8840), (18, 8879), (20, 8906), (21, 8909),

Gene: Neferthema_14 Start: 8782, Stop: 9105, Start Num: 11

Candidate Starts for Neferthema_14:

(Start: 11 @8782 has 118 MA's), (13, 8818), (20, 8917),

Gene: NickSell_13 Start: 7606, Stop: 7842, Start Num: 11

Candidate Starts for NickSell_13:

(Start: 11 @7606 has 118 MA's), (13, 7642), (18, 7714), (20, 7741), (22, 7753),

Gene: Nucci_12 Start: 7802, Stop: 8089, Start Num: 11

Candidate Starts for Nucci_12:

(Start: 11 @7802 has 118 MA's), (14, 7859), (16, 7880), (20, 7937),

Gene: Oats_13 Start: 7909, Stop: 8145, Start Num: 11

Candidate Starts for Oats_13:

(Start: 11 @7909 has 118 MA's), (13, 7945), (18, 8017), (22, 8056),

Gene: OldNelly_13 Start: 7606, Stop: 7842, Start Num: 11

Candidate Starts for OldNelly_13:

(Start: 11 @7606 has 118 MA's), (13, 7642), (18, 7714), (20, 7741), (22, 7753),

Gene: PSirce_12 Start: 7662, Stop: 7922, Start Num: 11

Candidate Starts for PSirce_12:

(Start: 11 @7662 has 118 MA's), (17, 7740), (20, 7779), (24, 7812),

Gene: Papafritta_13 Start: 7896, Stop: 8132, Start Num: 11

Candidate Starts for Papafritta_13:

(Start: 11 @7896 has 118 MA's), (13, 7932), (18, 8004), (20, 8031), (22, 8043),

Gene: ParleG_13 Start: 7606, Stop: 7842, Start Num: 11

Candidate Starts for ParleG_13:

(Start: 11 @7606 has 118 MA's), (13, 7642), (18, 7714), (20, 7741), (22, 7753),

Gene: Penta_13 Start: 7971, Stop: 8273, Start Num: 11

Candidate Starts for Penta_13:

(Start: 11 @7971 has 118 MA's), (13, 8007), (18, 8079), (20, 8106),

Gene: Peppino_13 Start: 8002, Stop: 8241, Start Num: 11

Candidate Starts for Peppino_13:

(1, 7528), (2, 7555), (3, 7576), (4, 7618), (Start: 11 @8002 has 118 MA's), (13, 8038), (18, 8110), (20, 8137),

Gene: Phanita_12 Start: 7650, Stop: 7910, Start Num: 11

Candidate Starts for Phanita_12:

(Start: 11 @7650 has 118 MA's), (17, 7728), (20, 7767),

Gene: Pherferi_13 Start: 7606, Stop: 7842, Start Num: 11

Candidate Starts for Pherferi_13:

(Start: 11 @7606 has 118 MA's), (13, 7642), (18, 7714), (19, 7723), (20, 7741), (22, 7753),

Gene: Phiderman_13 Start: 7603, Stop: 7839, Start Num: 11

Candidate Starts for Phiderman_13:

(Start: 11 @7603 has 118 MA's), (13, 7639), (18, 7711), (20, 7738), (22, 7750),

Gene: Phireproof_13 Start: 7606, Stop: 7842, Start Num: 11

Candidate Starts for Phireproof_13:

(Start: 11 @7606 has 118 MA's), (13, 7642), (18, 7714), (20, 7741), (22, 7753),

Gene: PhredFlintston_13 Start: 7606, Stop: 7842, Start Num: 11

Candidate Starts for PhredFlintston_13:

(Start: 11 @7606 has 118 MA's), (13, 7642), (18, 7714), (20, 7741), (22, 7753),

Gene: Phriends_13 Start: 7606, Stop: 7842, Start Num: 11

Candidate Starts for Phriends_13:

(Start: 11 @7606 has 118 MA's), (13, 7642), (18, 7714), (20, 7741), (22, 7753),

Gene: Pocket_13 Start: 7894, Stop: 8130, Start Num: 11

Candidate Starts for Pocket_13:

(Start: 11 @7894 has 118 MA's), (13, 7930), (18, 8002), (22, 8041),

Gene: QuadZero_14 Start: 8047, Stop: 8379, Start Num: 11

Candidate Starts for QuadZero_14:

(Start: 11 @8047 has 118 MA's), (13, 8083), (18, 8155), (20, 8182),

Gene: Quartz_12 Start: 7815, Stop: 8102, Start Num: 11

Candidate Starts for Quartz_12:

(Start: 11 @7815 has 118 MA's), (14, 7872), (16, 7893), (20, 7950),

Gene: Raccoon_13 Start: 8008, Stop: 8247, Start Num: 11

Candidate Starts for Raccoon_13:

(1, 7534), (2, 7561), (3, 7582), (4, 7624), (Start: 11 @8008 has 118 MA's), (13, 8044), (18, 8116), (20, 8143),

Gene: Rapheph_13 Start: 7606, Stop: 7842, Start Num: 11

Candidate Starts for Rapheph_13:

(Start: 11 @7606 has 118 MA's), (13, 7642), (18, 7714), (20, 7741), (22, 7753),

Gene: Redfield_13 Start: 8010, Stop: 8249, Start Num: 11

Candidate Starts for Redfield_13:

(1, 7536), (2, 7563), (3, 7584), (4, 7626), (Start: 11 @8010 has 118 MA's), (13, 8046), (18, 8118), (20, 8145),

Gene: Riyhil_13 Start: 7606, Stop: 7842, Start Num: 11

Candidate Starts for Riyhil_13:

(Start: 11 @7606 has 118 MA's), (13, 7642), (18, 7714), (20, 7741), (22, 7753),

Gene: Rog141_13 Start: 7896, Stop: 8132, Start Num: 11

Candidate Starts for Rog141_13:

(Start: 11 @7896 has 118 MA's), (13, 7932), (18, 8004), (20, 8031), (22, 8043),

Gene: RosieMae_13 Start: 7896, Stop: 8132, Start Num: 11

Candidate Starts for RosieMae_13:

(Start: 11 @7896 has 118 MA's), (13, 7932), (18, 8004), (20, 8031), (22, 8043),

Gene: SJay_13 Start: 7601, Stop: 7837, Start Num: 11

Candidate Starts for SJay_13:

(Start: 11 @7601 has 118 MA's), (13, 7637), (18, 7709), (20, 7736), (22, 7748),

Gene: Sansa_11 Start: 7671, Stop: 7931, Start Num: 11

Candidate Starts for Sansa_11:

(Start: 11 @7671 has 118 MA's), (17, 7749), (20, 7788),

Gene: Saratos_12 Start: 7651, Stop: 7911, Start Num: 11

Candidate Starts for Saratos_12:

(Start: 11 @7651 has 118 MA's), (17, 7729), (20, 7768), (24, 7801),

Gene: Schimmels22_14 Start: 8501, Stop: 8803, Start Num: 11

Candidate Starts for Schimmels22_14:

(Start: 11 @8501 has 118 MA's), (13, 8537), (18, 8609), (20, 8636),

Gene: Schnapsidee_13 Start: 8001, Stop: 8240, Start Num: 11

Candidate Starts for Schnapsidee_13:

(1, 7527), (2, 7554), (3, 7575), (4, 7617), (Start: 11 @8001 has 118 MA's), (13, 8037), (18, 8109), (20, 8136),

Gene: Scissor2024_14 Start: 8139, Stop: 8441, Start Num: 11
Candidate Starts for Scissor2024_14:
(Start: 11 @8139 has 118 MA's), (13, 8175), (18, 8247), (20, 8274),

Gene: Sedgewig_13 Start: 7896, Stop: 8132, Start Num: 11
Candidate Starts for Sedgewig_13:
(Start: 11 @7896 has 118 MA's), (13, 7932), (18, 8004), (20, 8031), (22, 8043),

Gene: Shamu_12 Start: 7663, Stop: 7923, Start Num: 11
Candidate Starts for Shamu_12:
(Start: 11 @7663 has 118 MA's), (17, 7741), (20, 7780), (24, 7813),

Gene: Shee_13 Start: 7603, Stop: 7839, Start Num: 11
Candidate Starts for Shee_13:
(Start: 11 @7603 has 118 MA's), (13, 7639), (18, 7711), (20, 7738), (22, 7750),

Gene: SoilGremlin_13 Start: 7603, Stop: 7839, Start Num: 11
Candidate Starts for SoilGremlin_13:
(Start: 11 @7603 has 118 MA's), (13, 7639), (18, 7711), (22, 7750),

Gene: SolidSnake_13 Start: 7606, Stop: 7842, Start Num: 11
Candidate Starts for SolidSnake_13:
(Start: 11 @7606 has 118 MA's), (13, 7642), (18, 7714), (20, 7741), (22, 7753),

Gene: Stanktossa_13 Start: 7606, Stop: 7842, Start Num: 11
Candidate Starts for Stanktossa_13:
(Start: 11 @7606 has 118 MA's), (13, 7642), (18, 7714), (20, 7741), (22, 7753),

Gene: StingRay_13 Start: 7896, Stop: 8132, Start Num: 11
Candidate Starts for StingRay_13:
(Start: 11 @7896 has 118 MA's), (13, 7932), (18, 8004), (20, 8031), (22, 8043),

Gene: StirfryIV_13 Start: 7896, Stop: 8132, Start Num: 11
Candidate Starts for StirfryIV_13:
(Start: 11 @7896 has 118 MA's), (13, 7932), (18, 8004), (20, 8031), (22, 8043),

Gene: Symere_13 Start: 7896, Stop: 8132, Start Num: 11
Candidate Starts for Symere_13:
(Start: 11 @7896 has 118 MA's), (13, 7932), (18, 8004), (20, 8031), (22, 8043),

Gene: TatarkaPM_13 Start: 7606, Stop: 7842, Start Num: 11
Candidate Starts for TatarkaPM_13:
(Start: 11 @7606 has 118 MA's), (13, 7642), (18, 7714), (20, 7741), (22, 7753),

Gene: Teagan_13 Start: 7600, Stop: 7836, Start Num: 11
Candidate Starts for Teagan_13:
(Start: 11 @7600 has 118 MA's), (13, 7636), (18, 7708), (20, 7735), (22, 7747),

Gene: TeddyBear_13 Start: 7909, Stop: 8145, Start Num: 11
Candidate Starts for TeddyBear_13:
(Start: 11 @7909 has 118 MA's), (13, 7945), (18, 8017), (22, 8056),

Gene: Tenda_13 Start: 7907, Stop: 8143, Start Num: 11

Candidate Starts for Tenda_13:

(Start: 11 @7907 has 118 MA's), (13, 7943), (18, 8015), (22, 8054),

Gene: TinSulphur_13 Start: 7606, Stop: 7842, Start Num: 11

Candidate Starts for TinSulphur_13:

(Start: 11 @7606 has 118 MA's), (13, 7642), (18, 7714), (20, 7741), (22, 7753),

Gene: Tinyman4_14 Start: 8142, Stop: 8444, Start Num: 11

Candidate Starts for Tinyman4_14:

(Start: 11 @8142 has 118 MA's), (13, 8178), (18, 8250), (20, 8277),

Gene: TwoBits_12 Start: 7838, Stop: 8170, Start Num: 12

Candidate Starts for TwoBits_12:

(Start: 12 @7838 has 5 MA's), (13, 7874), (18, 7946), (20, 7973),

Gene: Wardwill_15 Start: 8203, Stop: 8535, Start Num: 11

Candidate Starts for Wardwill_15:

(Start: 11 @8203 has 118 MA's), (13, 8239), (18, 8311), (20, 8338),

Gene: WestPM_13 Start: 7980, Stop: 8282, Start Num: 11

Candidate Starts for WestPM_13:

(Start: 11 @7980 has 118 MA's), (13, 8016), (18, 8088), (20, 8115),

Gene: WilliamStrong_12 Start: 8631, Stop: 8936, Start Num: 11

Candidate Starts for WilliamStrong_12:

(Start: 11 @8631 has 118 MA's), (13, 8667), (18, 8739), (20, 8766), (25, 8811),

Gene: Winzigespinne_13 Start: 7895, Stop: 8131, Start Num: 11

Candidate Starts for Winzigespinne_13:

(Start: 11 @7895 has 118 MA's), (13, 7931), (18, 8003), (20, 8030), (22, 8042),

Gene: Xebius_11 Start: 7651, Stop: 7911, Start Num: 11

Candidate Starts for Xebius_11:

(Start: 11 @7651 has 118 MA's), (17, 7729), (20, 7768), (24, 7801),

Gene: YuuY_12 Start: 7805, Stop: 8095, Start Num: 11

Candidate Starts for YuuY_12:

(8, 7631), (9, 7685), (Start: 11 @7805 has 118 MA's), (14, 7862), (16, 7883), (25, 7985),

Gene: Zada_13 Start: 7597, Stop: 7833, Start Num: 11

Candidate Starts for Zada_13:

(1, 7123), (Start: 11 @7597 has 118 MA's), (13, 7633), (18, 7705), (20, 7732), (22, 7744),

Gene: Zayuliv_14 Start: 8023, Stop: 8355, Start Num: 11

Candidate Starts for Zayuliv_14:

(Start: 11 @8023 has 118 MA's), (13, 8059), (18, 8131), (20, 8158),

Gene: Zenitsu_12 Start: 7675, Stop: 7935, Start Num: 11

Candidate Starts for Zenitsu_12:

(Start: 11 @7675 has 118 MA's), (17, 7753), (20, 7792),

Gene: Zepp_15 Start: 8032, Stop: 8364, Start Num: 11

Candidate Starts for Zepp_15:

(Start: 11 @8032 has 118 MA's), (13, 8068), (18, 8140), (20, 8167),