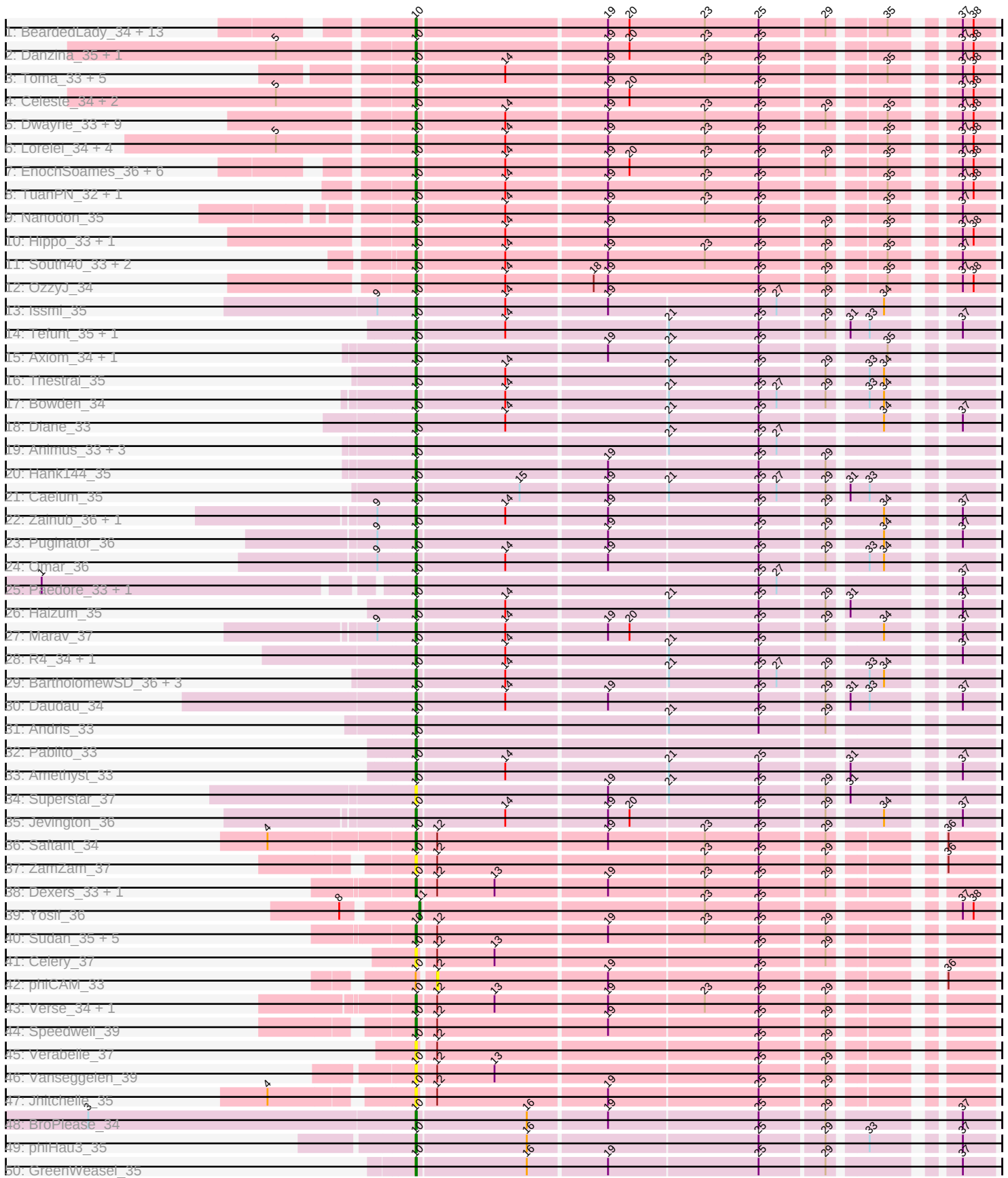
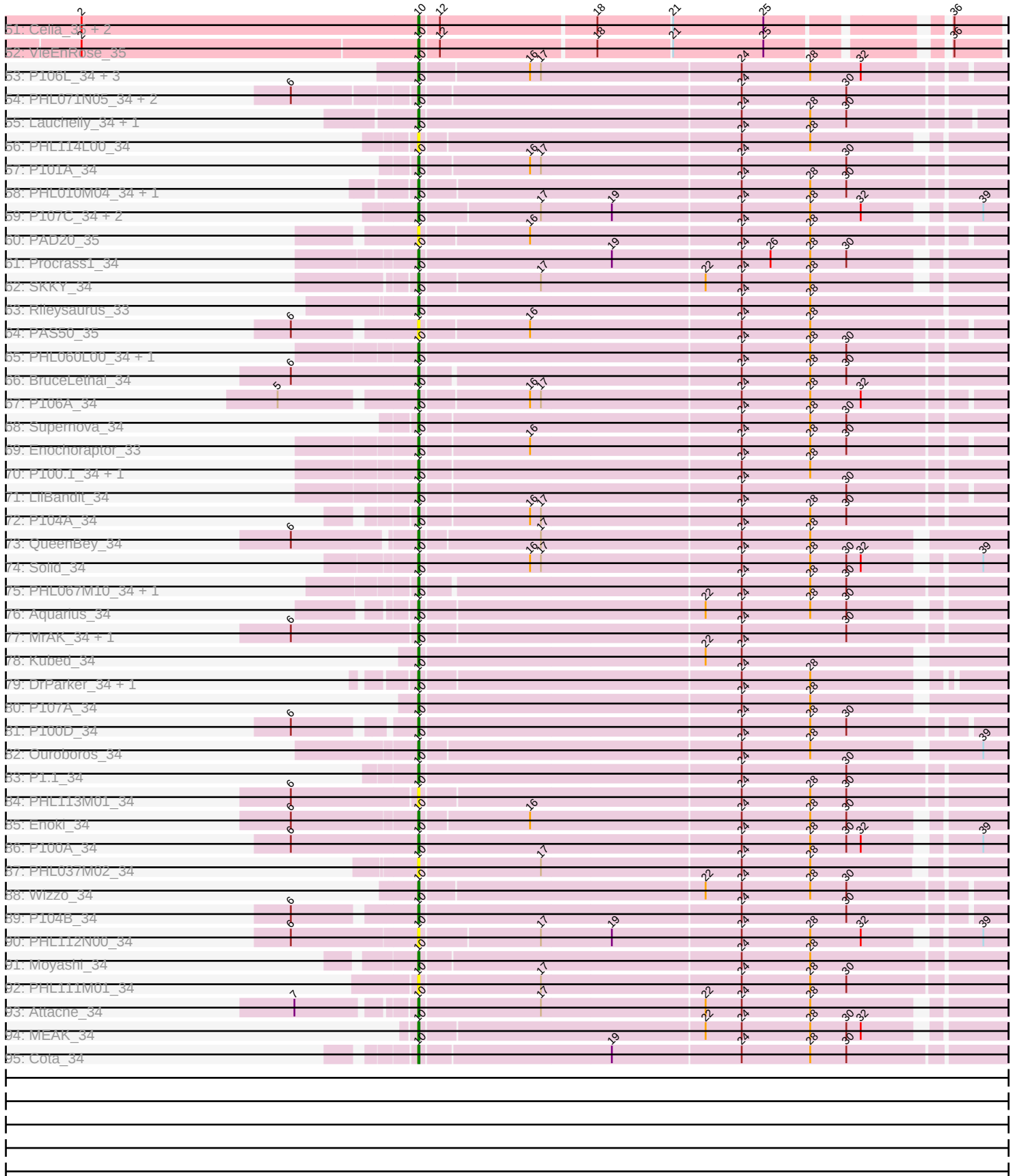




Pham 248599



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 248599 Report

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

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 248599 has 173 members, 21 are drafts.

Phages represented in each track:

- Track 1 : BeardedLady_34, Nerdos_33, Caliburn_33, Legacy_33, Leviticus_33, Esperer_33, SunsetPointe_33, Indigo_32, Aaronocolus_33, Phettuccine_33, Hydra_35, Bovely_33, Ozzie_33, Unstoppable_33
- Track 2 : Danzina_35, Zemlya_35
- Track 3 : Toma_33, Goby_33, Sujidade_34, Godpower_34, Lannister_35, Lika_33
- Track 4 : Celeste_34, Brataylor_36, Dattran_35
- Track 5 : Dwayne_33, Snorlax_33, Chucky_33, Emaanora_36, BarryBee_36, SarahRose_33, Triste_33, Whatever_33, TagerPighiter_35, Asten_33
- Track 6 : Lorelei_34, Rana_34, Maneekul_33, Yasdniil_33, Nabi_34
- Track 7 : EnochSoames_36, Izzy_34, Jash_34, BryanRecycles_34, Rusticus_34, Eddasa_34, Oliynyk_34
- Track 8 : TuanPN_32, Ejemplo_32
- Track 9 : Nanodon_35
- Track 10 : Hippo_33, Werner_33
- Track 11 : South40_33, Katalie_33, RedBear_34
- Track 12 : OzzyJ_34
- Track 13 : Issmi_35
- Track 14 : Tefunt_35, Nishikigoi_35
- Track 15 : Axiom_34, Triumph_35
- Track 16 : Thestral_35
- Track 17 : Bowden_34
- Track 18 : Diane_33
- Track 19 : Animus_33, SqueakyClean_33, Janus_34, GirlDinner_33
- Track 20 : Hank144_35
- Track 21 : Caelum_35
- Track 22 : Zainub_36, Paolo_36
- Track 23 : Puginator_36
- Track 24 : Omar_36
- Track 25 : Paedore_33, Loofah_34
- Track 26 : Haizum_35
- Track 27 : Marav_37
- Track 28 : R4_34, ELB20_32
- Track 29 : BartholomewSD_36, TinaBelcher_34, TrvxScott_33, Alvy_36

- Track 30 : Daudau_34
- Track 31 : Andris_33
- Track 32 : Pablito_33
- Track 33 : Amethyst_33
- Track 34 : Superstar_37
- Track 35 : Jevington_36
- Track 36 : Saftant_34
- Track 37 : ZamZam_37
- Track 38 : Dexers_33, Pavo_35
- Track 39 : Yosif_36
- Track 40 : Sudan_35, Alsaber_35, Conan_35, ElGato_35, Kaine_34, Provolone_35
- Track 41 : Celery_37
- Track 42 : phiCAM_33
- Track 43 : Verse_34, Amela_34
- Track 44 : Speedwell_39
- Track 45 : Verabelle_37
- Track 46 : Vanseggelen_39
- Track 47 : Jhitchelle_35
- Track 48 : BroPlease_34
- Track 49 : phiHau3_35
- Track 50 : GreenWeasel_35
- Track 51 : Celia_35, Urza_35, Itza_35
- Track 52 : VieEnRose_35
- Track 53 : P106L_34, P106M_34, P106I_34, P106C_35
- Track 54 : PHL071N05_34, Keiki_34, Pirate_34
- Track 55 : Lauchelly_34, P9.1_34
- Track 56 : PHL114L00_34
- Track 57 : P101A_34
- Track 58 : PHL010M04_34, Leviosa_34
- Track 59 : P107C_34, ATCC29399BC_34, ATCC29399BT_34
- Track 60 : PAD20_35
- Track 61 : Procrass1_34
- Track 62 : SKKY_34
- Track 63 : Rileysaurus_33
- Track 64 : PAS50_35
- Track 65 : PHL060L00_34, P14.4_34
- Track 66 : BruceLethal_34
- Track 67 : P106A_34
- Track 68 : Supernova_34
- Track 69 : Enochoraptor_33
- Track 70 : P100.1_34, PA6_35
- Track 71 : LilBandit_34
- Track 72 : P104A_34
- Track 73 : QueenBey_34
- Track 74 : Solid_34
- Track 75 : PHL067M10_34, P105_34
- Track 76 : Aquarius_34
- Track 77 : MrAK_34, Stormborn_34
- Track 78 : Kubed_34
- Track 79 : DrParker_34, P108C_34
- Track 80 : P107A_34
- Track 81 : P100D_34
- Track 82 : Ouroboros_34

- Track 83 : P1.1_34
- Track 84 : PHL113M01_34
- Track 85 : Enoki_34
- Track 86 : P100A_34
- Track 87 : PHL037M02_34
- Track 88 : Wizzo_34
- Track 89 : P104B_34
- Track 90 : PHL112N00_34
- Track 91 : Moyashi_34
- Track 92 : PHL111M01_34
- Track 93 : Attacne_34
- Track 94 : MEAK_34
- Track 95 : Cota_34

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

The start number called the most often in the published annotations is 10, it was called in 151 of the 152 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

• ATCC29399BC_34, ATCC29399BT_34, Aaronocolus_33, Alsaber_35, Alvy_36, Amela_34, Amethyst_33, Andris_33, Animus_33, Aquarius_34, Asten_33, Attacne_34, Axiom_34, BarryBee_36, BartholomewSD_36, BeardedLady_34, Bovely_33, Bowden_34, Brataylor_36, BroPlease_34, BruceLethal_34, BryanRecycles_34, Caelum_35, Caliburn_33, Celery_37, Celeste_34, Celia_35, Chucky_33, Conan_35, Cota_34, Danzina_35, Dattran_35, Daudau_34, Dexers_33, Diane_33, DrParker_34, Dwayne_33, ELB20_32, Eddasa_34, Ejemplo_32, ElGato_35, Emaanora_36, EnochSoames_36, Enochoraptor_33, Enoki_34, Esperer_33, GirlDinner_33, Goby_33, Godpower_34, GreenWeasel_35, Haizum_35, Hank144_35, Hippo_33, Hydra_35, Indigo_32, Issmi_35, Itza_35, Izzy_34, Janus_34, Jash_34, Jevington_36, Jhitchelle_35, Kaine_34, Katalie_33, Keiki_34, Kubed_34, Lannister_35, Lauchelly_34, Legacy_33, Leviosa_34, Leviticus_33, Lika_33, LilBandit_34, Loofah_34, Lorelei_34, MEAK_34, Maneekul_33, Marav_37, Moyashi_34, MrAK_34, Nabi_34, Nanodon_35, Nerdos_33, Nishikigoi_35, Oliynyk_34, Omar_36, Ouroboros_34, Ozzie_33, OzzyJ_34, P1.1_34, P100.1_34, P100A_34, P100D_34, P101A_34, P104A_34, P104B_34, P105_34, P106A_34, P106C_35, P106I_34, P106L_34, P106M_34, P107A_34, P107C_34, P108C_34, P14.4_34, P9.1_34, PA6_35, PAD20_35, PAS50_35, PHL010M04_34, PHL037M02_34, PHL060L00_34, PHL067M10_34, PHL071N05_34, PHL111M01_34, PHL112N00_34, PHL113M01_34, PHL114L00_34, Pablito_33, Paedore_33, Paolo_36, Pavo_35, Phettuccine_33, Pirate_34, Procrass1_34, Provolone_35, Puginator_36, QueenBey_34, R4_34, Rana_34, RedBear_34, Rileysaurus_33, Rusticus_34, SKKY_34, Saftant_34, SarahRose_33, Snorlax_33, Solid_34, South40_33, Speedwell_39, SqueakyClean_33, Stormborn_34, Sudan_35, Sujidade_34, SunsetPointe_33, Supernova_34, Superstar_37, TagePhighter_35, Tefunt_35, Thestral_35, TinaBelcher_34, Toma_33, Triste_33, Triumph_35, TrvxScott_33, TuanPN_32, Unstoppable_33, Urza_35, Vanseggelen_39, Verabelle_37, Verse_34, VieEnRose_35, Werner_33, Whatever_33, Wizzo_34, Yasdnil_33, Zainub_36, ZamZam_37, Zemlya_35, phiHau3_35,

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

- phiCAM_33,

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

- Yosif_36,

Summary by start number:

Start 10:

- Found in 172 of 173 (99.4%) of genes in pham
- Manual Annotations of this start: 151 of 152
- Called 99.4% of time when present
- Phage (with cluster) where this start called: ATCC29399BC_34 (BU), ATCC29399BT_34 (BU), Aaronocolus_33 (BD1), Alsaber_35 (BD3), Alvy_36 (BD2), Amela_34 (BD3), Amethyst_33 (BD2), Andris_33 (BD2), Animus_33 (BD2), Aquarius_34 (BU), Asten_33 (BD1), Attacne_34 (BU), Axiom_34 (BD2), BarryBee_36 (BD1), BartholomewSD_36 (BD2), BeardedLady_34 (BD1), Bovely_33 (BD1), Bowden_34 (BD2), Brataylor_36 (BD1), BroPlease_34 (BD4), BruceLethal_34 (BU), BryanRecycles_34 (BD1), Caelum_35 (BD2), Caliburn_33 (BD1), Celery_37 (BD3), Celeste_34 (BD1), Celia_35 (BD6), Chucky_33 (BD1), Conan_35 (BD3), Cota_34 (BU), Danzina_35 (BD1), Dattran_35 (BD1), Daudau_34 (BD2), Dexers_33 (BD3), Diane_33 (BD2), DrParker_34 (BU), Dwayne_33 (BD1), ELB20_32 (BD2), Eddasa_34 (BD1), Ejemplo_32 (BD1), ElGato_35 (BD3), Emaanora_36 (BD1), EnochSoames_36 (BD1), Enochoraptor_33 (BU), Enoki_34 (BU), Esperer_33 (BD1), GirlDinner_33 (BD2), Goby_33 (BD1), Godpower_34 (BD1), GreenWeasel_35 (BD4), Haizum_35 (BD2), Hank144_35 (BD2), Hippo_33 (BD1), Hydra_35 (BD1), Indigo_32 (BD1), Issmi_35 (BD2), Itza_35 (BD6), Izzy_34 (BD1), Janus_34 (BD2), Jash_34 (BD1), Jevington_36 (BD2), Jhitchelle_35 (BD3), Kaine_34 (BD3), Katalie_33 (BD1), Keiki_34 (BU), Kubed_34 (BU), Lannister_35 (BD1), Lauchelly_34 (BU), Legacy_33 (BD1), Leviosa_34 (BU), Leviticus_33 (BD1), Lika_33 (BD1), LilBandit_34 (BU), Loofah_34 (BD2), Lorelei_34 (BD1), MEAK_34 (BU), Maneekul_33 (BD1), Marav_37 (BD2), Moyashi_34 (BU), MrAK_34 (BU), Nabi_34 (BD1), Nanodon_35 (BD1), Nerdos_33 (BD1), Nishikigoi_35 (BD2), Oliynyk_34 (BD1), Omar_36 (BD2), Ouroboros_34 (BU), Ozzie_33 (BD1), OzzyJ_34 (BD1), P1.1_34 (BU), P100.1_34 (BU), P100A_34 (BU), P100D_34 (BU), P101A_34 (BU), P104A_34 (BU), P104B_34 (BU), P105_34 (BU), P106A_34 (BU), P106C_35 (BU), P106I_34 (BU), P106L_34 (BU), P106M_34 (BU), P107A_34 (BU), P107C_34 (BU), P108C_34 (BU), P14.4_34 (BU), P9.1_34 (BU), PA6_35 (BU), PAD20_35 (BU), PAS50_35 (BU), PHL010M04_34 (BU), PHL037M02_34 (BU), PHL060L00_34 (BU), PHL067M10_34 (BU), PHL071N05_34 (BU), PHL111M01_34 (BU), PHL112N00_34 (BU), PHL113M01_34 (BU), PHL114L00_34 (BU), Pablito_33 (BD2), Paedore_33 (BD2), Paolo_36 (BD2), Pavo_35 (BD3), Phettuccine_33 (BD1), Pirate_34 (BU), Procrass1_34 (BU), Provolone_35 (BD3), Puginator_36 (BD2), QueenBey_34 (BU), R4_34 (BD2), Rana_34 (BD1), RedBear_34 (BD1), Rileysaurus_33 (BU), Rusticus_34 (BD1), SKKY_34 (BU), Saftant_34 (BD3), SarahRose_33 (BD1), Snorlax_33 (BD1), Solid_34 (BU), South40_33 (BD1), Speedwell_39 (BD3), SqueakyClean_33 (BD2), Stormborn_34 (BU), Sudan_35 (BD3), Sujidade_34 (BD1), SunsetPointe_33 (BD1), Supernova_34 (BU), Superstar_37 (BD2), TagePhighter_35 (BD1), Tefunt_35 (BD2), Thestral_35 (BD2), TinaBelcher_34 (BD2), Toma_33 (BD1), Triste_33 (BD1), Triumph_35 (BD2), TrvxScott_33 (BD2), TuanPN_32 (BD1), Unstoppable_33 (BD1), Urza_35 (BD6), Vanseggelen_39 (BD3), Verabelle_37 (BD3), Verse_34 (BD3), VieEnRose_35 (BD6), Werner_33 (BD1), Whatever_33 (BD1), Wizzo_34 (BU), Yasdnil_33 (BD1), Zainub_36 (BD2), ZamZam_37 (BD3), Zemlya_35

(BD1), phiHau3_35 (BD4),

Start 11:

- Found in 1 of 173 (0.6%) of genes in pham
- Manual Annotations of this start: 1 of 152
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Yosif_36 (BD3),

Start 12:

- Found in 22 of 173 (12.7%) of genes in pham
- No Manual Annotations of this start.
- Called 4.5% of time when present
- Phage (with cluster) where this start called: phiCAM_33 (BD3),

Summary by clusters:

There are 6 clusters represented in this pham: BD4, BU, BD6, BD1, BD3, BD2,

Info for manual annotations of cluster BD1:

- Start number 10 was manually annotated 55 times for cluster BD1.

Info for manual annotations of cluster BD2:

- Start number 10 was manually annotated 33 times for cluster BD2.

Info for manual annotations of cluster BD3:

- Start number 10 was manually annotated 11 times for cluster BD3.
- Start number 11 was manually annotated 1 time for cluster BD3.

Info for manual annotations of cluster BD4:

- Start number 10 was manually annotated 3 times for cluster BD4.

Info for manual annotations of cluster BD6:

- Start number 10 was manually annotated 4 times for cluster BD6.

Info for manual annotations of cluster BU:

- Start number 10 was manually annotated 45 times for cluster BU.

Gene Information:

Gene: ATCC29399BC_34 Start: 23243, Stop: 22785, Start Num: 10

Candidate Starts for ATCC29399BC_34:

(Start: 10 @23243 has 151 MA's), (17, 23147), (19, 23090), (24, 22985), (28, 22928), (32, 22886), (39, 22805),

Gene: ATCC29399BT_34 Start: 23243, Stop: 22785, Start Num: 10

Candidate Starts for ATCC29399BT_34:

(Start: 10 @23243 has 151 MA's), (17, 23147), (19, 23090), (24, 22985), (28, 22928), (32, 22886), (39, 22805),

Gene: Aaronocolus_33 Start: 25192, Stop: 25629, Start Num: 10

Candidate Starts for Aaronocolus_33:

(Start: 10 @25192 has 151 MA's), (19, 25345), (20, 25363), (23, 25426), (25, 25471), (29, 25522), (35, 25561), (37, 25603), (38, 25612),

Gene: Alsaber_35 Start: 27047, Stop: 27481, Start Num: 10

Candidate Starts for Alsaber_35:

(Start: 10 @27047 has 151 MA's), (12, 27062), (19, 27200), (23, 27278), (25, 27323), (29, 27374),

Gene: Alvy_36 Start: 26522, Stop: 26959, Start Num: 10

Candidate Starts for Alvy_36:

(Start: 10 @26522 has 151 MA's), (14, 26594), (21, 26723), (25, 26798), (27, 26813), (29, 26849), (33, 26876), (34, 26888),

Gene: Amela_34 Start: 27877, Stop: 28311, Start Num: 10

Candidate Starts for Amela_34:

(Start: 10 @27877 has 151 MA's), (12, 27892), (13, 27940), (19, 28030), (23, 28108), (25, 28153), (29, 28204),

Gene: Amethyst_33 Start: 25879, Stop: 26316, Start Num: 10

Candidate Starts for Amethyst_33:

(Start: 10 @25879 has 151 MA's), (14, 25951), (21, 26080), (25, 26155), (31, 26218), (37, 26290),

Gene: Andris_33 Start: 25934, Stop: 26371, Start Num: 10

Candidate Starts for Andris_33:

(Start: 10 @25934 has 151 MA's), (21, 26135), (25, 26210), (29, 26261),

Gene: Animus_33 Start: 26379, Stop: 26816, Start Num: 10

Candidate Starts for Animus_33:

(Start: 10 @26379 has 151 MA's), (21, 26580), (25, 26655), (27, 26670),

Gene: Aquarius_34 Start: 22714, Stop: 22256, Start Num: 10

Candidate Starts for Aquarius_34:

(Start: 10 @22714 has 151 MA's), (22, 22486), (24, 22456), (28, 22399), (30, 22369),

Gene: Asten_33 Start: 25553, Stop: 25990, Start Num: 10

Candidate Starts for Asten_33:

(Start: 10 @25553 has 151 MA's), (14, 25625), (19, 25706), (23, 25787), (25, 25832), (29, 25883), (35, 25922), (37, 25964), (38, 25973),

Gene: Attacne_34 Start: 22739, Stop: 22278, Start Num: 10

Candidate Starts for Attacne_34:

(7, 22826), (Start: 10 @22739 has 151 MA's), (17, 22640), (22, 22508), (24, 22478), (28, 22421),

Gene: Axiom_34 Start: 26101, Stop: 26538, Start Num: 10

Candidate Starts for Axiom_34:

(Start: 10 @26101 has 151 MA's), (19, 26254), (21, 26302), (25, 26377), (35, 26470),

Gene: BarryBee_36 Start: 25563, Stop: 26000, Start Num: 10

Candidate Starts for BarryBee_36:

(Start: 10 @25563 has 151 MA's), (14, 25635), (19, 25716), (23, 25797), (25, 25842), (29, 25893), (35, 25932), (37, 25974), (38, 25983),

Gene: BartholomewSD_36 Start: 26522, Stop: 26959, Start Num: 10

Candidate Starts for BartholomewSD_36:

(Start: 10 @26522 has 151 MA's), (14, 26594), (21, 26723), (25, 26798), (27, 26813), (29, 26849), (33, 26876), (34, 26888),

Gene: BeardedLady_34 Start: 25445, Stop: 25882, Start Num: 10

Candidate Starts for BeardedLady_34:

(Start: 10 @25445 has 151 MA's), (19, 25598), (20, 25616), (23, 25679), (25, 25724), (29, 25775), (35, 25814), (37, 25856), (38, 25865),

Gene: Bovely_33 Start: 25198, Stop: 25635, Start Num: 10

Candidate Starts for Bovely_33:

(Start: 10 @25198 has 151 MA's), (19, 25351), (20, 25369), (23, 25432), (25, 25477), (29, 25528), (35, 25567), (37, 25609), (38, 25618),

Gene: Bowden_34 Start: 26434, Stop: 26871, Start Num: 10

Candidate Starts for Bowden_34:

(Start: 10 @26434 has 151 MA's), (14, 26506), (21, 26635), (25, 26710), (27, 26725), (29, 26761), (33, 26788), (34, 26800),

Gene: Brataylor_36 Start: 26528, Stop: 26965, Start Num: 10

Candidate Starts for Brataylor_36:

(5, 26423), (Start: 10 @26528 has 151 MA's), (19, 26681), (20, 26699), (25, 26807), (37, 26939), (38, 26948),

Gene: BroPlease_34 Start: 25712, Stop: 26149, Start Num: 10

Candidate Starts for BroPlease_34:

(3, 25442), (Start: 10 @25712 has 151 MA's), (16, 25802), (19, 25865), (25, 25988), (29, 26039), (37, 26123),

Gene: BruceLethal_34 Start: 23258, Stop: 22791, Start Num: 10

Candidate Starts for BruceLethal_34:

(6, 23363), (Start: 10 @23258 has 151 MA's), (24, 23003), (28, 22946), (30, 22916),

Gene: BryanRecycles_34 Start: 25549, Stop: 25986, Start Num: 10

Candidate Starts for BryanRecycles_34:

(Start: 10 @25549 has 151 MA's), (14, 25621), (19, 25702), (20, 25720), (23, 25783), (25, 25828), (29, 25879), (35, 25918), (37, 25960), (38, 25969),

Gene: Caelum_35 Start: 26140, Stop: 26577, Start Num: 10

Candidate Starts for Caelum_35:

(Start: 10 @26140 has 151 MA's), (15, 26224), (19, 26293), (21, 26341), (25, 26416), (27, 26431), (29, 26467), (31, 26479), (33, 26494),

Gene: Caliburn_33 Start: 25175, Stop: 25612, Start Num: 10

Candidate Starts for Caliburn_33:

(Start: 10 @25175 has 151 MA's), (19, 25328), (20, 25346), (23, 25409), (25, 25454), (29, 25505), (35, 25544), (37, 25586), (38, 25595),

Gene: Celery_37 Start: 26972, Stop: 27403, Start Num: 10

Candidate Starts for Celery_37:

(Start: 10 @26972 has 151 MA's), (12, 26984), (13, 27032), (25, 27245), (29, 27296),

Gene: Celeste_34 Start: 25997, Stop: 26434, Start Num: 10

Candidate Starts for Celeste_34:

(5, 25892), (Start: 10 @25997 has 151 MA's), (19, 26150), (20, 26168), (25, 26276), (37, 26408), (38, 26417),

Gene: Celia_35 Start: 26276, Stop: 26713, Start Num: 10

Candidate Starts for Celia_35:

(2, 25997), (Start: 10 @26276 has 151 MA's), (12, 26291), (18, 26417), (21, 26477), (25, 26552), (36, 26675),

Gene: Chucky_33 Start: 25567, Stop: 26004, Start Num: 10

Candidate Starts for Chucky_33:

(Start: 10 @25567 has 151 MA's), (14, 25639), (19, 25720), (23, 25801), (25, 25846), (29, 25897), (35, 25936), (37, 25978), (38, 25987),

Gene: Conan_35 Start: 26943, Stop: 27377, Start Num: 10

Candidate Starts for Conan_35:

(Start: 10 @26943 has 151 MA's), (12, 26958), (19, 27096), (23, 27174), (25, 27219), (29, 27270),

Gene: Cota_34 Start: 23305, Stop: 22835, Start Num: 10

Candidate Starts for Cota_34:

(Start: 10 @23305 has 151 MA's), (19, 23152), (24, 23047), (28, 22990), (30, 22960),

Gene: Danzina_35 Start: 26298, Stop: 26735, Start Num: 10

Candidate Starts for Danzina_35:

(5, 26193), (Start: 10 @26298 has 151 MA's), (19, 26451), (20, 26469), (23, 26532), (25, 26577), (37, 26709), (38, 26718),

Gene: Dattran_35 Start: 26104, Stop: 26541, Start Num: 10

Candidate Starts for Dattran_35:

(5, 25999), (Start: 10 @26104 has 151 MA's), (19, 26257), (20, 26275), (25, 26383), (37, 26515), (38, 26524),

Gene: Daudau_34 Start: 26267, Stop: 26704, Start Num: 10

Candidate Starts for Daudau_34:

(Start: 10 @26267 has 151 MA's), (14, 26339), (19, 26420), (25, 26543), (29, 26594), (31, 26606), (33, 26621), (37, 26678),

Gene: Dexers_33 Start: 26969, Stop: 27403, Start Num: 10

Candidate Starts for Dexers_33:

(Start: 10 @26969 has 151 MA's), (12, 26984), (13, 27032), (19, 27122), (23, 27200), (25, 27245), (29, 27296),

Gene: Diane_33 Start: 26149, Stop: 26589, Start Num: 10

Candidate Starts for Diane_33:

(Start: 10 @26149 has 151 MA's), (14, 26224), (21, 26353), (25, 26428), (34, 26518), (37, 26563),

Gene: DrParker_34 Start: 23332, Stop: 22880, Start Num: 10

Candidate Starts for DrParker_34:

(Start: 10 @23332 has 151 MA's), (24, 23074), (28, 23017),

Gene: Dwayne_33 Start: 25554, Stop: 25991, Start Num: 10

Candidate Starts for Dwayne_33:

(Start: 10 @25554 has 151 MA's), (14, 25626), (19, 25707), (23, 25788), (25, 25833), (29, 25884), (35, 25923), (37, 25965), (38, 25974),

Gene: ELB20_32 Start: 26533, Stop: 26970, Start Num: 10

Candidate Starts for ELB20_32:

(Start: 10 @26533 has 151 MA's), (14, 26605), (21, 26734), (25, 26809), (37, 26944),

Gene: Eddasa_34 Start: 25549, Stop: 25986, Start Num: 10

Candidate Starts for Eddasa_34:

(Start: 10 @25549 has 151 MA's), (14, 25621), (19, 25702), (20, 25720), (23, 25783), (25, 25828), (29, 25879), (35, 25918), (37, 25960), (38, 25969),

Gene: Ejemplo_32 Start: 25494, Stop: 25931, Start Num: 10

Candidate Starts for Ejemplo_32:

(Start: 10 @25494 has 151 MA's), (14, 25566), (19, 25647), (23, 25728), (25, 25773), (35, 25863), (37, 25905), (38, 25914),

Gene: ElGato_35 Start: 26607, Stop: 27041, Start Num: 10

Candidate Starts for ElGato_35:

(Start: 10 @26607 has 151 MA's), (12, 26622), (19, 26760), (23, 26838), (25, 26883), (29, 26934),

Gene: Emaanora_36 Start: 25512, Stop: 25949, Start Num: 10

Candidate Starts for Emaanora_36:

(Start: 10 @25512 has 151 MA's), (14, 25584), (19, 25665), (23, 25746), (25, 25791), (29, 25842), (35, 25881), (37, 25923), (38, 25932),

Gene: EnochSoames_36 Start: 25544, Stop: 25981, Start Num: 10

Candidate Starts for EnochSoames_36:

(Start: 10 @25544 has 151 MA's), (14, 25616), (19, 25697), (20, 25715), (23, 25778), (25, 25823), (29, 25874), (35, 25913), (37, 25955), (38, 25964),

Gene: Enochoraptor_33 Start: 23268, Stop: 22804, Start Num: 10

Candidate Starts for Enochoraptor_33:

(Start: 10 @23268 has 151 MA's), (16, 23181), (24, 23010), (28, 22953), (30, 22923),

Gene: Enoki_34 Start: 23278, Stop: 22820, Start Num: 10

Candidate Starts for Enoki_34:

(6, 23380), (Start: 10 @23278 has 151 MA's), (16, 23191), (24, 23020), (28, 22963), (30, 22933),

Gene: Esperer_33 Start: 25011, Stop: 25448, Start Num: 10

Candidate Starts for Esperer_33:

(Start: 10 @25011 has 151 MA's), (19, 25164), (20, 25182), (23, 25245), (25, 25290), (29, 25341), (35, 25380), (37, 25422), (38, 25431),

Gene: GirlDinner_33 Start: 25880, Stop: 26317, Start Num: 10

Candidate Starts for GirlDinner_33:

(Start: 10 @25880 has 151 MA's), (21, 26081), (25, 26156), (27, 26171),

Gene: Goby_33 Start: 26001, Stop: 26438, Start Num: 10

Candidate Starts for Goby_33:

(Start: 10 @26001 has 151 MA's), (14, 26073), (19, 26154), (23, 26235), (25, 26280), (35, 26370), (37, 26412), (38, 26421),

Gene: Godpower_34 Start: 25996, Stop: 26433, Start Num: 10

Candidate Starts for Godpower_34:

(Start: 10 @25996 has 151 MA's), (14, 26068), (19, 26149), (23, 26230), (25, 26275), (35, 26365), (37, 26407), (38, 26416),

Gene: GreenWeasel_35 Start: 25718, Stop: 26155, Start Num: 10

Candidate Starts for GreenWeasel_35:

(Start: 10 @25718 has 151 MA's), (16, 25808), (19, 25871), (25, 25994), (29, 26045), (37, 26129),

Gene: Haizum_35 Start: 26221, Stop: 26658, Start Num: 10

Candidate Starts for Haizum_35:

(Start: 10 @26221 has 151 MA's), (14, 26293), (21, 26422), (25, 26497), (29, 26548), (31, 26560), (37, 26632),

Gene: Hank144_35 Start: 26294, Stop: 26731, Start Num: 10

Candidate Starts for Hank144_35:

(Start: 10 @26294 has 151 MA's), (19, 26447), (25, 26570), (29, 26621),

Gene: Hippo_33 Start: 25563, Stop: 26000, Start Num: 10

Candidate Starts for Hippo_33:

(Start: 10 @25563 has 151 MA's), (14, 25635), (19, 25716), (25, 25842), (29, 25893), (35, 25932), (37, 25974), (38, 25983),

Gene: Hydra_35 Start: 25723, Stop: 26160, Start Num: 10

Candidate Starts for Hydra_35:

(Start: 10 @25723 has 151 MA's), (19, 25876), (20, 25894), (23, 25957), (25, 26002), (29, 26053), (35, 26092), (37, 26134), (38, 26143),

Gene: Indigo_32 Start: 25191, Stop: 25628, Start Num: 10

Candidate Starts for Indigo_32:

(Start: 10 @25191 has 151 MA's), (19, 25344), (20, 25362), (23, 25425), (25, 25470), (29, 25521), (35, 25560), (37, 25602), (38, 25611),

Gene: Issmi_35 Start: 26847, Stop: 27284, Start Num: 10

Candidate Starts for Issmi_35:

(9, 26817), (Start: 10 @26847 has 151 MA's), (14, 26919), (19, 27000), (25, 27123), (27, 27138), (29, 27174), (34, 27213),

Gene: Itza_35 Start: 26190, Stop: 26627, Start Num: 10

Candidate Starts for Itza_35:

(2, 25911), (Start: 10 @26190 has 151 MA's), (12, 26205), (18, 26331), (21, 26391), (25, 26466), (36, 26589),

Gene: Izzy_34 Start: 25596, Stop: 26033, Start Num: 10

Candidate Starts for Izzy_34:

(Start: 10 @25596 has 151 MA's), (14, 25668), (19, 25749), (20, 25767), (23, 25830), (25, 25875), (29, 25926), (35, 25965), (37, 26007), (38, 26016),

Gene: Janus_34 Start: 26220, Stop: 26657, Start Num: 10

Candidate Starts for Janus_34:

(Start: 10 @26220 has 151 MA's), (21, 26421), (25, 26496), (27, 26511),

Gene: Jash_34 Start: 25549, Stop: 25986, Start Num: 10

Candidate Starts for Jash_34:

(Start: 10 @25549 has 151 MA's), (14, 25621), (19, 25702), (20, 25720), (23, 25783), (25, 25828), (29, 25879), (35, 25918), (37, 25960), (38, 25969),

Gene: Jevington_36 Start: 26636, Stop: 27073, Start Num: 10

Candidate Starts for Jevington_36:

(Start: 10 @26636 has 151 MA's), (14, 26708), (19, 26789), (20, 26807), (25, 26912), (29, 26963), (34, 27002), (37, 27047),

Gene: Jhitchelle_35 Start: 26482, Stop: 26913, Start Num: 10

Candidate Starts for Jhitchelle_35:

(4, 26377), (Start: 10 @26482 has 151 MA's), (12, 26494), (19, 26632), (25, 26755), (29, 26806),

Gene: Kaine_34 Start: 26756, Stop: 27190, Start Num: 10

Candidate Starts for Kaine_34:

(Start: 10 @26756 has 151 MA's), (12, 26771), (19, 26909), (23, 26987), (25, 27032), (29, 27083),

Gene: Katalie_33 Start: 25728, Stop: 26165, Start Num: 10

Candidate Starts for Katalie_33:

(Start: 10 @25728 has 151 MA's), (14, 25800), (19, 25881), (23, 25962), (25, 26007), (29, 26058), (35, 26097), (37, 26139),

Gene: Keiki_34 Start: 23206, Stop: 22736, Start Num: 10

Candidate Starts for Keiki_34:

(6, 23302), (Start: 10 @23206 has 151 MA's), (24, 22948), (30, 22861),

Gene: Kubed_34 Start: 23258, Stop: 22791, Start Num: 10

Candidate Starts for Kubed_34:

(Start: 10 @23258 has 151 MA's), (22, 23027), (24, 22997),

Gene: Lannister_35 Start: 26214, Stop: 26651, Start Num: 10

Candidate Starts for Lannister_35:

(Start: 10 @26214 has 151 MA's), (14, 26286), (19, 26367), (23, 26448), (25, 26493), (35, 26583), (37, 26625), (38, 26634),

Gene: Lauchelly_34 Start: 23298, Stop: 22831, Start Num: 10

Candidate Starts for Lauchelly_34:

(Start: 10 @23298 has 151 MA's), (24, 23037), (28, 22980), (30, 22950),

Gene: Legacy_33 Start: 25166, Stop: 25603, Start Num: 10

Candidate Starts for Legacy_33:

(Start: 10 @25166 has 151 MA's), (19, 25319), (20, 25337), (23, 25400), (25, 25445), (29, 25496), (35, 25535), (37, 25577), (38, 25586),

Gene: Leviosa_34 Start: 23289, Stop: 22831, Start Num: 10

Candidate Starts for Leviosa_34:

(Start: 10 @23289 has 151 MA's), (24, 23031), (28, 22974), (30, 22944),

Gene: Leviticus_33 Start: 25195, Stop: 25632, Start Num: 10

Candidate Starts for Leviticus_33:

(Start: 10 @25195 has 151 MA's), (19, 25348), (20, 25366), (23, 25429), (25, 25474), (29, 25525), (35, 25564), (37, 25606), (38, 25615),

Gene: Lika_33 Start: 25999, Stop: 26436, Start Num: 10

Candidate Starts for Lika_33:

(Start: 10 @25999 has 151 MA's), (14, 26071), (19, 26152), (23, 26233), (25, 26278), (35, 26368), (37, 26410), (38, 26419),

Gene: LilBandit_34 Start: 23088, Stop: 22624, Start Num: 10

Candidate Starts for LilBandit_34:

(Start: 10 @23088 has 151 MA's), (24, 22830), (30, 22743),

Gene: Loofah_34 Start: 26403, Stop: 26840, Start Num: 10

Candidate Starts for Loofah_34:

(1, 26115), (Start: 10 @26403 has 151 MA's), (25, 26679), (27, 26694), (37, 26814),

Gene: Lorelei_34 Start: 26060, Stop: 26497, Start Num: 10

Candidate Starts for Lorelei_34:

(5, 25955), (Start: 10 @26060 has 151 MA's), (14, 26132), (19, 26213), (23, 26294), (25, 26339), (35, 26429), (37, 26471), (38, 26480),

Gene: MEAK_34 Start: 22951, Stop: 22493, Start Num: 10

Candidate Starts for MEAK_34:

(Start: 10 @22951 has 151 MA's), (22, 22723), (24, 22693), (28, 22636), (30, 22606), (32, 22594),

Gene: Maneekul_33 Start: 25585, Stop: 26022, Start Num: 10

Candidate Starts for Maneekul_33:

(5, 25480), (Start: 10 @25585 has 151 MA's), (14, 25657), (19, 25738), (23, 25819), (25, 25864), (35, 25954), (37, 25996), (38, 26005),

Gene: Marav_37 Start: 26960, Stop: 27397, Start Num: 10

Candidate Starts for Marav_37:

(9, 26930), (Start: 10 @26960 has 151 MA's), (14, 27032), (19, 27113), (20, 27131), (25, 27236), (29, 27287), (34, 27326), (37, 27371),

Gene: Moyashi_34 Start: 23073, Stop: 22603, Start Num: 10

Candidate Starts for Moyashi_34:

(Start: 10 @23073 has 151 MA's), (24, 22815), (28, 22758),

Gene: MrAK_34 Start: 23078, Stop: 22608, Start Num: 10

Candidate Starts for MrAK_34:

(6, 23180), (Start: 10 @23078 has 151 MA's), (24, 22820), (30, 22733),

Gene: Nabi_34 Start: 26060, Stop: 26497, Start Num: 10

Candidate Starts for Nabi_34:

(5, 25955), (Start: 10 @26060 has 151 MA's), (14, 26132), (19, 26213), (23, 26294), (25, 26339), (35, 26429), (37, 26471), (38, 26480),

Gene: Nanodon_35 Start: 25821, Stop: 26258, Start Num: 10

Candidate Starts for Nanodon_35:

(Start: 10 @25821 has 151 MA's), (14, 25893), (19, 25974), (23, 26055), (25, 26100), (35, 26190), (37, 26232),

Gene: Nerdos_33 Start: 25189, Stop: 25626, Start Num: 10

Candidate Starts for Nerdos_33:

(Start: 10 @25189 has 151 MA's), (19, 25342), (20, 25360), (23, 25423), (25, 25468), (29, 25519), (35, 25558), (37, 25600), (38, 25609),

Gene: Nishikigoi_35 Start: 26221, Stop: 26658, Start Num: 10

Candidate Starts for Nishikigoi_35:

(Start: 10 @26221 has 151 MA's), (14, 26293), (21, 26422), (25, 26497), (29, 26548), (31, 26560), (33, 26575), (37, 26632),

Gene: Oliynyk_34 Start: 25549, Stop: 25986, Start Num: 10

Candidate Starts for Oliynyk_34:

(Start: 10 @25549 has 151 MA's), (14, 25621), (19, 25702), (20, 25720), (23, 25783), (25, 25828), (29, 25879), (35, 25918), (37, 25960), (38, 25969),

Gene: Omar_36 Start: 26466, Stop: 26903, Start Num: 10

Candidate Starts for Omar_36:

(9, 26436), (Start: 10 @26466 has 151 MA's), (14, 26538), (19, 26619), (25, 26742), (29, 26793), (33, 26820), (34, 26832),

Gene: Ouroboros_34 Start: 23273, Stop: 22809, Start Num: 10

Candidate Starts for Ouroboros_34:

(Start: 10 @23273 has 151 MA's), (24, 23015), (28, 22958), (39, 22829),

Gene: Ozzie_33 Start: 25175, Stop: 25612, Start Num: 10

Candidate Starts for Ozzie_33:

(Start: 10 @25175 has 151 MA's), (19, 25328), (20, 25346), (23, 25409), (25, 25454), (29, 25505), (35, 25544), (37, 25586), (38, 25595),

Gene: OzzyJ_34 Start: 25554, Stop: 25991, Start Num: 10

Candidate Starts for OzzyJ_34:

(Start: 10 @25554 has 151 MA's), (14, 25626), (18, 25695), (19, 25707), (25, 25833), (29, 25884), (35, 25923), (37, 25965), (38, 25974),

Gene: P1.1_34 Start: 23309, Stop: 22836, Start Num: 10

Candidate Starts for P1.1_34:

(Start: 10 @23309 has 151 MA's), (24, 23048), (30, 22961),

Gene: P100.1_34 Start: 23345, Stop: 22875, Start Num: 10

Candidate Starts for P100.1_34:

(Start: 10 @23345 has 151 MA's), (24, 23087), (28, 23030),

Gene: P100A_34 Start: 23284, Stop: 22823, Start Num: 10

Candidate Starts for P100A_34:

(6, 23389), (Start: 10 @23284 has 151 MA's), (24, 23023), (28, 22966), (30, 22936), (32, 22924), (39, 22843),

Gene: P100D_34 Start: 23278, Stop: 22811, Start Num: 10

Candidate Starts for P100D_34:

(6, 23362), (Start: 10 @23278 has 151 MA's), (24, 23017), (28, 22960), (30, 22930),

Gene: P101A_34 Start: 23307, Stop: 22837, Start Num: 10

Candidate Starts for P101A_34:

(Start: 10 @23307 has 151 MA's), (16, 23220), (17, 23211), (24, 23049), (30, 22962),

Gene: P104A_34 Start: 23080, Stop: 22610, Start Num: 10

Candidate Starts for P104A_34:

(Start: 10 @23080 has 151 MA's), (16, 22993), (17, 22984), (24, 22822), (28, 22765), (30, 22735),

Gene: P104B_34 Start: 23273, Stop: 22806, Start Num: 10

Candidate Starts for P104B_34:

(6, 23363), (Start: 10 @23273 has 151 MA's), (24, 23012), (30, 22925),

Gene: P105_34 Start: 22941, Stop: 22471, Start Num: 10

Candidate Starts for P105_34:

(Start: 10 @22941 has 151 MA's), (24, 22683), (28, 22626), (30, 22596),

Gene: P106A_34 Start: 23357, Stop: 22893, Start Num: 10

Candidate Starts for P106A_34:

(5, 23462), (Start: 10 @23357 has 151 MA's), (16, 23270), (17, 23261), (24, 23099), (28, 23042), (32, 23000),

Gene: P106C_35 Start: 23295, Stop: 22831, Start Num: 10

Candidate Starts for P106C_35:

(Start: 10 @23295 has 151 MA's), (16, 23208), (17, 23199), (24, 23037), (28, 22980), (32, 22938),

Gene: P106I_34 Start: 23124, Stop: 22660, Start Num: 10

Candidate Starts for P106I_34:

(Start: 10 @23124 has 151 MA's), (16, 23037), (17, 23028), (24, 22866), (28, 22809), (32, 22767),

Gene: P106L_34 Start: 23295, Stop: 22831, Start Num: 10

Candidate Starts for P106L_34:

(Start: 10 @23295 has 151 MA's), (16, 23208), (17, 23199), (24, 23037), (28, 22980), (32, 22938),

Gene: P106M_34 Start: 23295, Stop: 22831, Start Num: 10

Candidate Starts for P106M_34:

(Start: 10 @23295 has 151 MA's), (16, 23208), (17, 23199), (24, 23037), (28, 22980), (32, 22938),

Gene: P107A_34 Start: 23308, Stop: 22841, Start Num: 10

Candidate Starts for P107A_34:

(Start: 10 @23308 has 151 MA's), (24, 23047), (28, 22990),

Gene: P107C_34 Start: 23243, Stop: 22785, Start Num: 10

Candidate Starts for P107C_34:

(Start: 10 @23243 has 151 MA's), (17, 23147), (19, 23090), (24, 22985), (28, 22928), (32, 22886), (39, 22805),

Gene: P108C_34 Start: 23267, Stop: 22797, Start Num: 10

Candidate Starts for P108C_34:

(Start: 10 @23267 has 151 MA's), (24, 23009), (28, 22952),

Gene: P14.4_34 Start: 23271, Stop: 22798, Start Num: 10

Candidate Starts for P14.4_34:

(Start: 10 @23271 has 151 MA's), (24, 23010), (28, 22953), (30, 22923),

Gene: P9.1_34 Start: 23296, Stop: 22832, Start Num: 10

Candidate Starts for P9.1_34:

(Start: 10 @23296 has 151 MA's), (24, 23038), (28, 22981), (30, 22951),

Gene: PA6_35 Start: 23261, Stop: 22791, Start Num: 10

Candidate Starts for PA6_35:

(Start: 10 @23261 has 151 MA's), (24, 23003), (28, 22946),

Gene: PAD20_35 Start: 23036, Stop: 22572, Start Num: 10

Candidate Starts for PAD20_35:

(Start: 10 @23036 has 151 MA's), (16, 22949), (24, 22778), (28, 22721),

Gene: PAS50_35 Start: 23201, Stop: 22737, Start Num: 10

Candidate Starts for PAS50_35:

(6, 23291), (Start: 10 @23201 has 151 MA's), (16, 23114), (24, 22943), (28, 22886),

Gene: PHL010M04_34 Start: 23275, Stop: 22805, Start Num: 10

Candidate Starts for PHL010M04_34:

(Start: 10 @23275 has 151 MA's), (24, 23017), (28, 22960), (30, 22930),

Gene: PHL037M02_34 Start: 23263, Stop: 22802, Start Num: 10

Candidate Starts for PHL037M02_34:

(Start: 10 @23263 has 151 MA's), (17, 23164), (24, 23002), (28, 22945),

Gene: PHL060L00_34 Start: 23119, Stop: 22646, Start Num: 10

Candidate Starts for PHL060L00_34:

(Start: 10 @23119 has 151 MA's), (24, 22858), (28, 22801), (30, 22771),

Gene: PHL067M10_34 Start: 23228, Stop: 22761, Start Num: 10

Candidate Starts for PHL067M10_34:

(Start: 10 @23228 has 151 MA's), (24, 22973), (28, 22916), (30, 22886),

Gene: PHL071N05_34 Start: 23295, Stop: 22825, Start Num: 10

Candidate Starts for PHL071N05_34:

(6, 23391), (Start: 10 @23295 has 151 MA's), (24, 23037), (30, 22950),

Gene: PHL111M01_34 Start: 22996, Stop: 22523, Start Num: 10

Candidate Starts for PHL111M01_34:

(Start: 10 @22996 has 151 MA's), (17, 22897), (24, 22735), (28, 22678), (30, 22648),

Gene: PHL112N00_34 Start: 23288, Stop: 22830, Start Num: 10

Candidate Starts for PHL112N00_34:

(6, 23390), (Start: 10 @23288 has 151 MA's), (17, 23192), (19, 23135), (24, 23030), (28, 22973), (32, 22931), (39, 22850),

Gene: PHL113M01_34 Start: 23042, Stop: 22572, Start Num: 10

Candidate Starts for PHL113M01_34:

(6, 23144), (Start: 10 @23042 has 151 MA's), (24, 22784), (28, 22727), (30, 22697),

Gene: PHL114L00_34 Start: 23244, Stop: 22786, Start Num: 10

Candidate Starts for PHL114L00_34:

(Start: 10 @23244 has 151 MA's), (24, 22986), (28, 22929),

Gene: Pablito_33 Start: 25796, Stop: 26233, Start Num: 10

Candidate Starts for Pablito_33:

(Start: 10 @25796 has 151 MA's),

Gene: Paedore_33 Start: 26388, Stop: 26825, Start Num: 10

Candidate Starts for Paedore_33:

(1, 26100), (Start: 10 @26388 has 151 MA's), (25, 26664), (27, 26679), (37, 26799),

Gene: Paolo_36 Start: 26802, Stop: 27239, Start Num: 10

Candidate Starts for Paolo_36:

(9, 26772), (Start: 10 @26802 has 151 MA's), (14, 26874), (19, 26955), (25, 27078), (29, 27129), (34, 27168), (37, 27213),

Gene: Pavo_35 Start: 27216, Stop: 27650, Start Num: 10

Candidate Starts for Pavo_35:

(Start: 10 @27216 has 151 MA's), (12, 27231), (13, 27279), (19, 27369), (23, 27447), (25, 27492), (29, 27543),

Gene: Phettuccine_33 Start: 25191, Stop: 25628, Start Num: 10

Candidate Starts for Phettuccine_33:

(Start: 10 @25191 has 151 MA's), (19, 25344), (20, 25362), (23, 25425), (25, 25470), (29, 25521), (35, 25560), (37, 25602), (38, 25611),

Gene: Pirate_34 Start: 23191, Stop: 22721, Start Num: 10

Candidate Starts for Pirate_34:

(6, 23287), (Start: 10 @23191 has 151 MA's), (24, 22933), (30, 22846),

Gene: Procrass1_34 Start: 23257, Stop: 22796, Start Num: 10

Candidate Starts for Procrass1_34:

(Start: 10 @23257 has 151 MA's), (19, 23101), (24, 22996), (26, 22972), (28, 22939), (30, 22909),

Gene: Provolone_35 Start: 26598, Stop: 27032, Start Num: 10

Candidate Starts for Provolone_35:

(Start: 10 @26598 has 151 MA's), (12, 26613), (19, 26751), (23, 26829), (25, 26874), (29, 26925),

Gene: Puginator_36 Start: 26823, Stop: 27260, Start Num: 10

Candidate Starts for Puginator_36:

(9, 26793), (Start: 10 @26823 has 151 MA's), (19, 26976), (25, 27099), (29, 27150), (34, 27189), (37, 27234),

Gene: QueenBey_34 Start: 23243, Stop: 22779, Start Num: 10

Candidate Starts for QueenBey_34:

(6, 23339), (Start: 10 @23243 has 151 MA's), (17, 23147), (24, 22985), (28, 22928),

Gene: R4_34 Start: 26543, Stop: 26980, Start Num: 10

Candidate Starts for R4_34:

(Start: 10 @26543 has 151 MA's), (14, 26615), (21, 26744), (25, 26819), (37, 26954),

Gene: Rana_34 Start: 26060, Stop: 26497, Start Num: 10

Candidate Starts for Rana_34:

(5, 25955), (Start: 10 @26060 has 151 MA's), (14, 26132), (19, 26213), (23, 26294), (25, 26339), (35, 26429), (37, 26471), (38, 26480),

Gene: RedBear_34 Start: 25728, Stop: 26165, Start Num: 10

Candidate Starts for RedBear_34:

(Start: 10 @25728 has 151 MA's), (14, 25800), (19, 25881), (23, 25962), (25, 26007), (29, 26058), (35, 26097), (37, 26139),

Gene: Rileysaurus_33 Start: 23292, Stop: 22816, Start Num: 10

Candidate Starts for Rileysaurus_33:

(Start: 10 @23292 has 151 MA's), (24, 23031), (28, 22974),

Gene: Rusticus_34 Start: 25549, Stop: 25986, Start Num: 10

Candidate Starts for Rusticus_34:

(Start: 10 @25549 has 151 MA's), (14, 25621), (19, 25702), (20, 25720), (23, 25783), (25, 25828), (29, 25879), (35, 25918), (37, 25960), (38, 25969),

Gene: SKKY_34 Start: 23028, Stop: 22570, Start Num: 10

Candidate Starts for SKKY_34:

(Start: 10 @23028 has 151 MA's), (17, 22932), (22, 22800), (24, 22770), (28, 22713),

Gene: Saftant_34 Start: 27161, Stop: 27595, Start Num: 10

Candidate Starts for Saftant_34:

(4, 27047), (Start: 10 @27161 has 151 MA's), (12, 27176), (19, 27314), (23, 27392), (25, 27437), (29, 27488), (36, 27557),

Gene: SarahRose_33 Start: 25563, Stop: 26000, Start Num: 10

Candidate Starts for SarahRose_33:

(Start: 10 @25563 has 151 MA's), (14, 25635), (19, 25716), (23, 25797), (25, 25842), (29, 25893), (35, 25932), (37, 25974), (38, 25983),

Gene: Snorlax_33 Start: 25566, Stop: 26003, Start Num: 10

Candidate Starts for Snorlax_33:

(Start: 10 @25566 has 151 MA's), (14, 25638), (19, 25719), (23, 25800), (25, 25845), (29, 25896), (35, 25935), (37, 25977), (38, 25986),

Gene: Solid_34 Start: 23262, Stop: 22801, Start Num: 10

Candidate Starts for Solid_34:

(Start: 10 @23262 has 151 MA's), (16, 23172), (17, 23163), (24, 23001), (28, 22944), (30, 22914), (32, 22902), (39, 22821),

Gene: South40_33 Start: 25728, Stop: 26165, Start Num: 10

Candidate Starts for South40_33:

(Start: 10 @25728 has 151 MA's), (14, 25800), (19, 25881), (23, 25962), (25, 26007), (29, 26058), (35, 26097), (37, 26139),

Gene: Speedwell_39 Start: 28473, Stop: 28907, Start Num: 10

Candidate Starts for Speedwell_39:

(Start: 10 @28473 has 151 MA's), (12, 28488), (19, 28626), (25, 28749), (29, 28800),

Gene: SqueakyClean_33 Start: 26311, Stop: 26748, Start Num: 10

Candidate Starts for SqueakyClean_33:

(Start: 10 @26311 has 151 MA's), (21, 26512), (25, 26587), (27, 26602),

Gene: Stormborn_34 Start: 22885, Stop: 22415, Start Num: 10

Candidate Starts for Stormborn_34:

(6, 22987), (Start: 10 @22885 has 151 MA's), (24, 22627), (30, 22540),

Gene: Sudan_35 Start: 27043, Stop: 27477, Start Num: 10

Candidate Starts for Sudan_35:

(Start: 10 @27043 has 151 MA's), (12, 27058), (19, 27196), (23, 27274), (25, 27319), (29, 27370),

Gene: Sujidade_34 Start: 26284, Stop: 26721, Start Num: 10

Candidate Starts for Sujidade_34:

(Start: 10 @26284 has 151 MA's), (14, 26356), (19, 26437), (23, 26518), (25, 26563), (35, 26653), (37, 26695), (38, 26704),

Gene: SunsetPointe_33 Start: 25182, Stop: 25619, Start Num: 10

Candidate Starts for SunsetPointe_33:

(Start: 10 @25182 has 151 MA's), (19, 25335), (20, 25353), (23, 25416), (25, 25461), (29, 25512), (35, 25551), (37, 25593), (38, 25602),

Gene: Supernova_34 Start: 23049, Stop: 22579, Start Num: 10

Candidate Starts for Supernova_34:

(Start: 10 @23049 has 151 MA's), (24, 22791), (28, 22734), (30, 22704),

Gene: Superstar_37 Start: 27336, Stop: 27773, Start Num: 10

Candidate Starts for Superstar_37:

(Start: 10 @27336 has 151 MA's), (19, 27489), (21, 27537), (25, 27612), (29, 27663), (31, 27675),

Gene: TagePhighter_35 Start: 25566, Stop: 26003, Start Num: 10

Candidate Starts for TagePhighter_35:

(Start: 10 @25566 has 151 MA's), (14, 25638), (19, 25719), (23, 25800), (25, 25845), (29, 25896), (35, 25935), (37, 25977), (38, 25986),

Gene: Tefunt_35 Start: 26224, Stop: 26661, Start Num: 10

Candidate Starts for Tefunt_35:

(Start: 10 @26224 has 151 MA's), (14, 26296), (21, 26425), (25, 26500), (29, 26551), (31, 26563), (33, 26578), (37, 26635),

Gene: Thestral_35 Start: 26426, Stop: 26863, Start Num: 10

Candidate Starts for Thestral_35:

(Start: 10 @26426 has 151 MA's), (14, 26498), (21, 26627), (25, 26702), (29, 26753), (33, 26780), (34, 26792),

Gene: TinaBelcher_34 Start: 26373, Stop: 26810, Start Num: 10

Candidate Starts for TinaBelcher_34:

(Start: 10 @26373 has 151 MA's), (14, 26445), (21, 26574), (25, 26649), (27, 26664), (29, 26700), (33, 26727), (34, 26739),

Gene: Toma_33 Start: 26001, Stop: 26438, Start Num: 10

Candidate Starts for Toma_33:

(Start: 10 @26001 has 151 MA's), (14, 26073), (19, 26154), (23, 26235), (25, 26280), (35, 26370), (37, 26412), (38, 26421),

Gene: Triste_33 Start: 25554, Stop: 25991, Start Num: 10

Candidate Starts for Triste_33:

(Start: 10 @25554 has 151 MA's), (14, 25626), (19, 25707), (23, 25788), (25, 25833), (29, 25884), (35, 25923), (37, 25965), (38, 25974),

Gene: Triumph_35 Start: 26118, Stop: 26555, Start Num: 10

Candidate Starts for Triumph_35:

(Start: 10 @26118 has 151 MA's), (19, 26271), (21, 26319), (25, 26394), (35, 26487),

Gene: TrvxScott_33 Start: 26419, Stop: 26856, Start Num: 10

Candidate Starts for TrvxScott_33:

(Start: 10 @26419 has 151 MA's), (14, 26491), (21, 26620), (25, 26695), (27, 26710), (29, 26746), (33, 26773), (34, 26785),

Gene: TuanPN_32 Start: 25494, Stop: 25931, Start Num: 10

Candidate Starts for TuanPN_32:

(Start: 10 @25494 has 151 MA's), (14, 25566), (19, 25647), (23, 25728), (25, 25773), (35, 25863), (37, 25905), (38, 25914),

Gene: Unstoppable_33 Start: 25186, Stop: 25623, Start Num: 10

Candidate Starts for Unstoppable_33:

(Start: 10 @25186 has 151 MA's), (19, 25339), (20, 25357), (23, 25420), (25, 25465), (29, 25516), (35, 25555), (37, 25597), (38, 25606),

Gene: Urza_35 Start: 26211, Stop: 26648, Start Num: 10

Candidate Starts for Urza_35:

(2, 25932), (Start: 10 @26211 has 151 MA's), (12, 26226), (18, 26352), (21, 26412), (25, 26487), (36, 26610),

Gene: Vanseggelen_39 Start: 26727, Stop: 27161, Start Num: 10

Candidate Starts for Vanseggelen_39:

(Start: 10 @26727 has 151 MA's), (12, 26742), (13, 26790), (25, 27003), (29, 27054),

Gene: Verabelle_37 Start: 27114, Stop: 27545, Start Num: 10

Candidate Starts for Verabelle_37:

(Start: 10 @27114 has 151 MA's), (12, 27126), (25, 27387), (29, 27438),

Gene: Verse_34 Start: 27871, Stop: 28305, Start Num: 10

Candidate Starts for Verse_34:

(Start: 10 @27871 has 151 MA's), (12, 27886), (13, 27934), (19, 28024), (23, 28102), (25, 28147), (29, 28198),

Gene: VieEnRose_35 Start: 26282, Stop: 26719, Start Num: 10

Candidate Starts for VieEnRose_35:

(2, 26006), (Start: 10 @26282 has 151 MA's), (12, 26297), (18, 26423), (21, 26483), (25, 26558), (36, 26681),

Gene: Werner_33 Start: 25564, Stop: 26001, Start Num: 10

Candidate Starts for Werner_33:

(Start: 10 @25564 has 151 MA's), (14, 25636), (19, 25717), (25, 25843), (29, 25894), (35, 25933), (37, 25975), (38, 25984),

Gene: Whatever_33 Start: 25564, Stop: 26001, Start Num: 10

Candidate Starts for Whatever_33:

(Start: 10 @25564 has 151 MA's), (14, 25636), (19, 25717), (23, 25798), (25, 25843), (29, 25894), (35, 25933), (37, 25975), (38, 25984),

Gene: Wizzo_34 Start: 22762, Stop: 22298, Start Num: 10

Candidate Starts for Wizzo_34:

(Start: 10 @22762 has 151 MA's), (22, 22534), (24, 22504), (28, 22447), (30, 22417),

Gene: Yasdnii_33 Start: 25613, Stop: 26050, Start Num: 10

Candidate Starts for Yasdnil_33:

(5, 25508), (Start: 10 @25613 has 151 MA's), (14, 25685), (19, 25766), (23, 25847), (25, 25892), (35, 25982), (37, 26024), (38, 26033),

Gene: Yosif_36 Start: 27669, Stop: 28103, Start Num: 11

Candidate Starts for Yosif_36:

(8, 27615), (Start: 11 @27669 has 1 MA's), (23, 27897), (25, 27942), (37, 28077), (38, 28086),

Gene: Zainub_36 Start: 26763, Stop: 27200, Start Num: 10

Candidate Starts for Zainub_36:

(9, 26733), (Start: 10 @26763 has 151 MA's), (14, 26835), (19, 26916), (25, 27039), (29, 27090), (34, 27129), (37, 27174),

Gene: ZamZam_37 Start: 27147, Stop: 27581, Start Num: 10

Candidate Starts for ZamZam_37:

(Start: 10 @27147 has 151 MA's), (12, 27162), (23, 27378), (25, 27423), (29, 27474), (36, 27543),

Gene: Zemlya_35 Start: 26104, Stop: 26541, Start Num: 10

Candidate Starts for Zemlya_35:

(5, 25999), (Start: 10 @26104 has 151 MA's), (19, 26257), (20, 26275), (23, 26338), (25, 26383), (37, 26515), (38, 26524),

Gene: phiCAM_33 Start: 29004, Stop: 29423, Start Num: 12

Candidate Starts for phiCAM_33:

(Start: 10 @28992 has 151 MA's), (12, 29004), (19, 29142), (25, 29265), (36, 29385),

Gene: phiHau3_35 Start: 25683, Stop: 26120, Start Num: 10

Candidate Starts for phiHau3_35:

(Start: 10 @25683 has 151 MA's), (16, 25773), (25, 25959), (29, 26010), (33, 26037), (37, 26094),