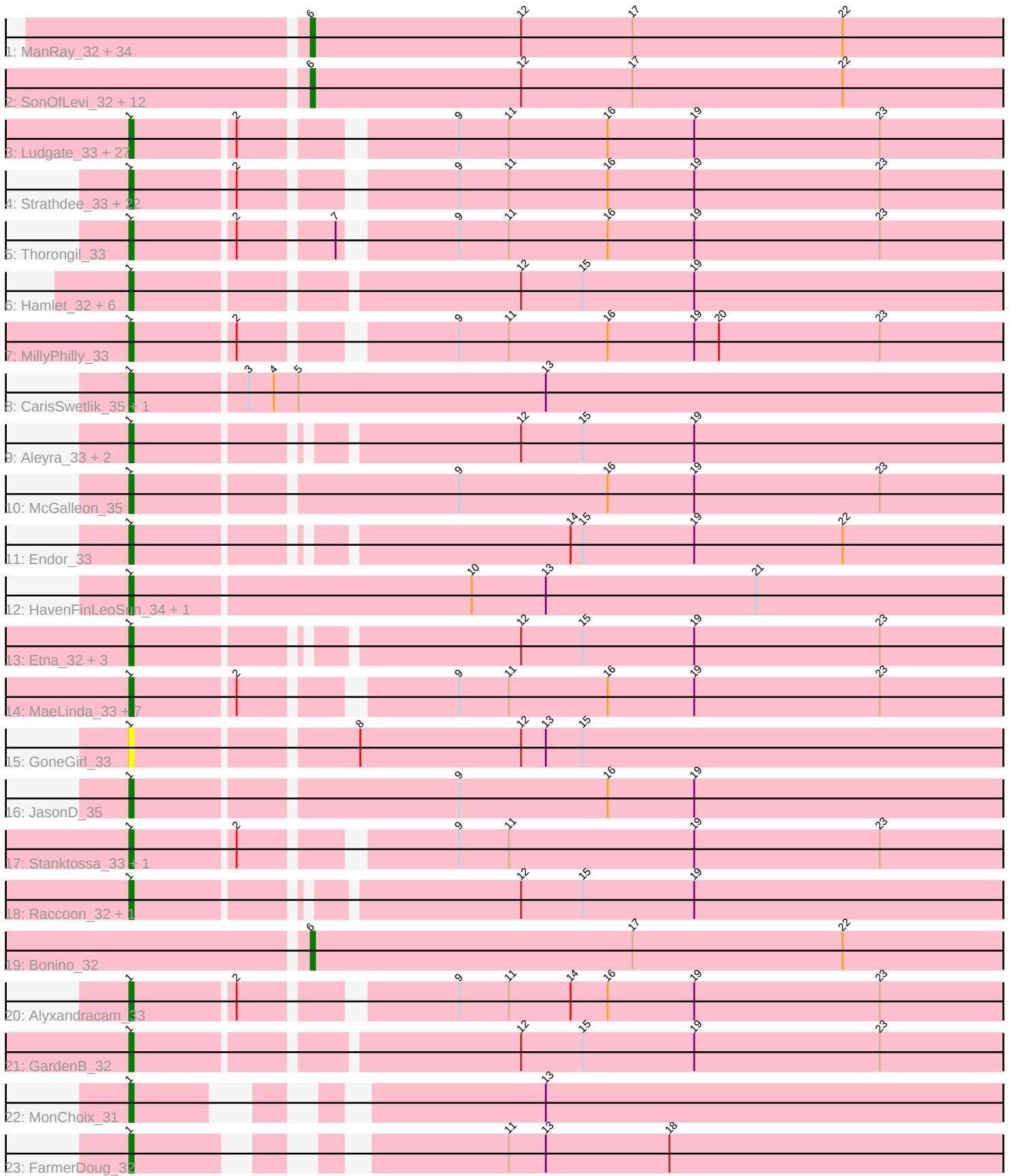


Pham 330584



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 330584 Report

This analysis was run 09/05/26 on database version 662.

Pham number 330584 has 140 members, 8 are drafts.

Phages represented in each track:

- Track 1 : ManRay_32, Asta_32, Janus167_32, Christoph_32, Espinosa_32, CoraRita_32, HankSprout_33, StirfryIV_32, Jerbirus_33, Ilzat_32, AranulaLuti_32, TeddyBear_32, KannH_32, Symere_32, JeriBeth_32, Kouch_32, Aubergine_32, Rog141_32, RosieMae_32, HanSolo_32, Gubbabump_32, Gershwin_32, Winzigespinne_32, Tenda_32, Baines_32, Papafritta_32, Chako_32, HungryHenry_32, Duocatuli_32, Sedgewig_32, Exploradora_32, Benjalauren_33, StingRay_32, Oats_32, JasperRussell_32
- Track 2 : SonOfLevi_32, Nattles_32, Etta_32, Erla_32, Clancy_32, KellyGreen_33, Garey24_32, Calix_32, Chamuel_32, Kale_32, Pocket_32, Gelo_32, Klimt_32
- Track 3 : Ludgate_33, Phiderman_33, MrWorldwide_33, Inventa_33, Kurt1_33, Robinson_33, Antoinette_33, TatarkaPM_33, TinSulphur_33, Teagan_33, Superfresh_33, ParleG_33, Pherferi_33, SolidSnake_34, Byron23_33, Shee_33, Rapheph_33, Nagem_33, Peep_33, NickSell_33, Bandik_33, Martin_34, AlexAdler_33, Dave_33, SJay_33, PhredFlintston_33, Zada_33, Renzie_33
- Track 4 : Strathdee_33, BeautPeep30_33, Velene_33, BigRedClifford_33, Raptor_33, Oxtober96_33, Phireproof_33, GoingMerry_33, AxiPup_33, Gargoyles_33, Blage_33, ShaiHulud_33, BonesMcCoy_33, PuppyEggo_33, Vispistious_33, Convict_33, Den3_33, WildNOut_33, Ioannes_33, Thompsone_33, Knox_33, Lovelyunicorn_33, Greys_33
- Track 5 : Thorongil_33
- Track 6 : Hamlet_32, Peppino_32, Redfield_32, PhillyPhantom_32, BeeBee8_33, Balsa_32, Schnapsidee_32
- Track 7 : MillyPhilly_33
- Track 8 : CarisSwetlik_35, Jenos_36
- Track 9 : Aleyra_33, Anilorac_32, Agente005_33
- Track 10 : McGalleon_35
- Track 11 : Endor_33
- Track 12 : HavenFinLeoSun_34, Acosta_34
- Track 13 : Etna_32, KingJulien_32, Stormbreaker8_32, Soror1_32
- Track 14 : MaeLinda_33, Phriends_33, OldNelly_33, Rihhil_33, Merida02_34, Figueroism_33, Delphidian_33, SoilGremlin_33
- Track 15 : GoneGirl_33
- Track 16 : JasonD_35
- Track 17 : Stanktossa_33, Dothraki_33
- Track 18 : Raccoon_32, Leafus_32
- Track 19 : Bonino_32
- Track 20 : Alyxandracam_33

- Track 21 : GardenB_32
- Track 22 : MonChoix_31
- Track 23 : FarmerDoug_32

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

The start number called the most often in the published annotations is 1, it was called in 85 of the 132 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acosta_34, Agente005_33, AlexAdler_33, Aleyra_33, Alyxandracam_33, Anilorac_32, Antoinette_33, AxiPup_33, Balsa_32, Bandik_33, BeautPeep30_33, BeeBee8_33, BigRedClifford_33, Blage_33, BonesMcCoy_33, Byron23_33, CarisSwetlik_35, Convict_33, Dave_33, Delphidian_33, Den3_33, Dothraki_33, Endor_33, Etna_32, FarmerDoug_32, Figueroism_33, GardenB_32, Gargoyle_33, GoingMerry_33, GoneGirl_33, Greys_33, Hamlet_32, HavenFinLeoSun_34, Inventa_33, Ioannes_33, JasonD_35, Jenos_36, KingJulien_32, Knox_33, Kurt1_33, Leafus_32, Lovelyunicorn_33, Ludgate_33, MaeLinda_33, Martin_34, McGalleon_35, Merida02_34, MillyPhilly_33, MonChoix_31, MrWorldwide_33, Nagem_33, NickSell_33, OldNelly_33, Oxtober96_33, ParleG_33, Peep_33, Peppino_32, Pherferi_33, Phiderman_33, PhillyPhantom_32, Phireproof_33, PhredFlintston_33, Phriends_33, PuppyEggo_33, Raccoon_32, Rapheph_33, Raptor_33, Redfield_32, Renzie_33, Riyhil_33, Robinson_33, SJay_33, Schnapsidee_32, ShaiHulud_33, Shee_33, SoilGremlin_33, SolidSnake_34, Soror1_32, Stanktossa_33, Stormbreaker8_32, Strathdee_33, Superfresh_33, TatarkaPM_33, Teagan_33, Thompsons_33, Thorongil_33, TinSulphur_33, Velene_33, Vispistious_33, WildNOut_33, Zada_33,

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

-

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

- AranulaLuti_32, Asta_32, Aubergine_32, Baines_32, Benjalauren_33, Bonino_32, Calix_32, Chako_32, Chamuel_32, Christoph_32, Clancy_32, CoraRita_32, Duocatuli_32, Erla_32, Espinosa_32, Etta_32, Exploradora_32, Garey24_32, Gelo_32, Gershwin_32, Gubbabump_32, HanSolo_32, HankSprout_33, HungryHenry_32, Ilzat_32, Janus167_32, JasperRussell_32, Jerbirus_33, JeriBeth_32, Kale_32, KannH_32, KellyGreen_33, Klimt_32, Kouch_32, ManRay_32, Nattles_32, Oats_32, Papafritta_32, Pocket_32, Rog141_32, RosieMae_32, Sedgewig_32, SonOfLevi_32, StingRay_32, StirfryIV_32, Symere_32, TeddyBear_32, Tenda_32, Winzigespinne_32,

Summary by start number:

Start 1:

- Found in 91 of 140 (65.0%) of genes in pham
- Manual Annotations of this start: 85 of 132
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Acosta_34 (EA1), Agente005_33 (EA1), AlexAdler_33 (EA1), Aleyra_33 (EA1), Alyxandracam_33 (EA1), Anilorac_32 (EA1),

Antoinette_33 (EA1), AxiPup_33 (EA1), Balsa_32 (EA1), Bandik_33 (EA1), BeautPeep30_33 (EA1), BeeBee8_33 (EA1), BigRedClifford_33 (EA1), Blage_33 (EA1), BonesMcCoy_33 (EA1), Byron23_33 (EA1), CarisSwetlik_35 (EA1), Convict_33 (EA1), Dave_33 (EA1), Delphidian_33 (EA1), Den3_33 (EA1), Dothraki_33 (EA1), Endor_33 (EA1), Etna_32 (EA1), FarmerDoug_32 (EA1), Figueroism_33 (EA1), GardenB_32 (EA1), Gargoyle_33 (EA1), GoingMerry_33 (EA1), GoneGirl_33 (EA1), Greys_33 (EA1), Hamlet_32 (EA1), HavenFinLeoSun_34 (EA1), Inventa_33 (EA1), Ioannes_33 (EA1), JasonD_35 (EA1), Jenos_36 (EA1), KingJulien_32 (EA1), Knox_33 (EA1), Kurt1_33 (EA1), Leafus_32 (EA1), Lovelyunicorn_33 (EA1), Ludgate_33 (EA1), MaeLinda_33 (EA1), Martin_34 (EA1), McGalleon_35 (EA1), Merida02_34 (EA1), MillyPhilly_33 (EA1), MonChoix_31 (EA1), MrWorldwide_33 (EA1), Nagem_33 (EA1), NickSell_33 (EA1), OldNelly_33 (EA1), Oxtober96_33 (EA1), ParleG_33 (EA1), Peep_33 (EA1), Peppino_32 (EA1), Pherferi_33 (EA1), Phiderman_33 (EA1), PhillyPhantom_32 (EA1), Phireproof_33 (EA1), PhredFlintston_33 (EA1), Phriends_33 (EA1), PuppyEggo_33 (EA1), Raccoon_32 (EA1), Rappheph_33 (EA1), Raptor_33 (EA1), Redfield_32 (EA1), Renzie_33 (EA1), Rihhil_33 (EA1), Robinson_33 (EA1), SJay_33 (EA1), Schnapsidee_32 (EA1), ShaiHulud_33 (EA1), Shee_33 (EA1), SoilGremlin_33 (EA1), SolidSnake_34 (EA1), Soror1_32 (EA1), Stanktossa_33 (EA1), Stormbreaker8_32 (EA1), Strathdee_33 (EA1), Superfresh_33 (EA1), TatarkaPM_33 (EA1), Teagan_33 (EA1), Thompsone_33 (EA1), Thorongil_33 (EA1), TinSulphur_33 (EA1), Velene_33 (EA1), Vispistious_33 (EA1), WildNOut_33 (EA1), Zada_33 (EA1),

Start 6:

- Found in 49 of 140 (35.0%) of genes in pham
- Manual Annotations of this start: 47 of 132
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AranulaLuti_32 (EA1), Asta_32 (EA1), Aubergine_32 (EA1), Baines_32 (EA1), Benjalauren_33 (EA1), Bonino_32 (EA1), Calix_32 (EA1), Chako_32 (EA1), Chamuel_32 (EA1), Christoph_32 (EA1), Clancy_32 (EA1), CoraRita_32 (EA1), Duocatuli_32 (EA1), Erla_32 (EA1), Espinosa_32 (EA1), Etta_32 (EA1), Exploradora_32 (EA1), Garey24_32 (EA1), Gelo_32 (EA1), Gershwin_32 (EA1), Gubbabump_32 (EA1), HanSolo_32 (EA1), HankSprout_33 (EA1), HungryHenry_32 (EA1), Ilzat_32 (EA1), Janus167_32 (EA1), JasperRussell_32 (EA1), Jerbirus_33 (EA1), JeriBeth_32 (EA1), Kale_32 (EA1), KannH_32 (EA1), KellyGreen_33 (EA1), Klimt_32 (EA1), Kouch_32 (EA1), ManRay_32 (EA1), Nattles_32 (EA1), Oats_32 (EA1), Papafritta_32 (EA1), Pocket_32 (EA1), Rog141_32 (EA1), RosieMae_32 (EA1), Sedgewig_32 (EA1), SonOfLevi_32 (EA1), StingRay_32 (EA1), StirfryIV_32 (EA1), Symere_32 (EA1), TeddyBear_32 (EA1), Tenda_32 (EA1), Winzigespinne_32 (EA1),

Summary by clusters:

There is one cluster represented in this pham: EA1

Info for manual annotations of cluster EA1:

- Start number 1 was manually annotated 85 times for cluster EA1.
- Start number 6 was manually annotated 47 times for cluster EA1.

Gene Information:

Gene: Acosta_34 Start: 22806, Stop: 22555, Start Num: 1
Candidate Starts for Acosta_34:
(Start: 1 @22806 has 85 MA's), (10, 22725), (13, 22707), (21, 22656),

Gene: Agente005_33 Start: 22618, Stop: 22376, Start Num: 1
Candidate Starts for Agente005_33:
(Start: 1 @22618 has 85 MA's), (12, 22534), (15, 22519), (19, 22492),

Gene: AlexAdler_33 Start: 22421, Stop: 22179, Start Num: 1
Candidate Starts for AlexAdler_33:
(Start: 1 @22421 has 85 MA's), (2, 22397), (9, 22352), (11, 22340), (16, 22316), (19, 22295), (23, 22250),

Gene: Aleyra_33 Start: 22623, Stop: 22381, Start Num: 1
Candidate Starts for Aleyra_33:
(Start: 1 @22623 has 85 MA's), (12, 22539), (15, 22524), (19, 22497),

Gene: Alyxandracam_33 Start: 22430, Stop: 22188, Start Num: 1
Candidate Starts for Alyxandracam_33:
(Start: 1 @22430 has 85 MA's), (2, 22406), (9, 22361), (11, 22349), (14, 22334), (16, 22325), (19, 22304), (23, 22259),

Gene: Anilorac_32 Start: 22462, Stop: 22220, Start Num: 1
Candidate Starts for Anilorac_32:
(Start: 1 @22462 has 85 MA's), (12, 22378), (15, 22363), (19, 22336),

Gene: Antoinette_33 Start: 22418, Stop: 22176, Start Num: 1
Candidate Starts for Antoinette_33:
(Start: 1 @22418 has 85 MA's), (2, 22394), (9, 22349), (11, 22337), (16, 22313), (19, 22292), (23, 22247),

Gene: AranulaLuti_32 Start: 22115, Stop: 21906, Start Num: 6
Candidate Starts for AranulaLuti_32:
(Start: 6 @22115 has 47 MA's), (12, 22064), (17, 22037), (22, 21986),

Gene: Asta_32 Start: 22128, Stop: 21919, Start Num: 6
Candidate Starts for Asta_32:
(Start: 6 @22128 has 47 MA's), (12, 22077), (17, 22050), (22, 21999),

Gene: Aubergine_32 Start: 22128, Stop: 21919, Start Num: 6
Candidate Starts for Aubergine_32:
(Start: 6 @22128 has 47 MA's), (12, 22077), (17, 22050), (22, 21999),

Gene: AxiPup_33 Start: 22430, Stop: 22188, Start Num: 1
Candidate Starts for AxiPup_33:
(Start: 1 @22430 has 85 MA's), (2, 22406), (9, 22361), (11, 22349), (16, 22325), (19, 22304), (23, 22259),

Gene: Baines_32 Start: 22115, Stop: 21906, Start Num: 6
Candidate Starts for Baines_32:
(Start: 6 @22115 has 47 MA's), (12, 22064), (17, 22037), (22, 21986),

Gene: Balsa_32 Start: 22463, Stop: 22218, Start Num: 1

Candidate Starts for Balsa_32:

(Start: 1 @22463 has 85 MA's), (12, 22376), (15, 22361), (19, 22334),

Gene: Bandik_33 Start: 22426, Stop: 22184, Start Num: 1

Candidate Starts for Bandik_33:

(Start: 1 @22426 has 85 MA's), (2, 22402), (9, 22357), (11, 22345), (16, 22321), (19, 22300), (23, 22255),

Gene: BeautPeep30_33 Start: 22432, Stop: 22190, Start Num: 1

Candidate Starts for BeautPeep30_33:

(Start: 1 @22432 has 85 MA's), (2, 22408), (9, 22363), (11, 22351), (16, 22327), (19, 22306), (23, 22261),

Gene: BeeBee8_33 Start: 22630, Stop: 22385, Start Num: 1

Candidate Starts for BeeBee8_33:

(Start: 1 @22630 has 85 MA's), (12, 22543), (15, 22528), (19, 22501),

Gene: Benjalauren_33 Start: 22125, Stop: 21916, Start Num: 6

Candidate Starts for Benjalauren_33:

(Start: 6 @22125 has 47 MA's), (12, 22074), (17, 22047), (22, 21996),

Gene: BigRedClifford_33 Start: 22430, Stop: 22188, Start Num: 1

Candidate Starts for BigRedClifford_33:

(Start: 1 @22430 has 85 MA's), (2, 22406), (9, 22361), (11, 22349), (16, 22325), (19, 22304), (23, 22259),

Gene: Blage_33 Start: 22430, Stop: 22188, Start Num: 1

Candidate Starts for Blage_33:

(Start: 1 @22430 has 85 MA's), (2, 22406), (9, 22361), (11, 22349), (16, 22325), (19, 22304), (23, 22259),

Gene: BonesMcCoy_33 Start: 22430, Stop: 22188, Start Num: 1

Candidate Starts for BonesMcCoy_33:

(Start: 1 @22430 has 85 MA's), (2, 22406), (9, 22361), (11, 22349), (16, 22325), (19, 22304), (23, 22259),

Gene: Bonino_32 Start: 22104, Stop: 21895, Start Num: 6

Candidate Starts for Bonino_32:

(Start: 6 @22104 has 47 MA's), (17, 22026), (22, 21975),

Gene: Byron23_33 Start: 22435, Stop: 22193, Start Num: 1

Candidate Starts for Byron23_33:

(Start: 1 @22435 has 85 MA's), (2, 22411), (9, 22366), (11, 22354), (16, 22330), (19, 22309), (23, 22264),

Gene: Calix_32 Start: 22108, Stop: 21899, Start Num: 6

Candidate Starts for Calix_32:

(Start: 6 @22108 has 47 MA's), (12, 22057), (17, 22030), (22, 21979),

Gene: CarisSwetlik_35 Start: 23301, Stop: 23050, Start Num: 1

Candidate Starts for CarisSwetlik_35:

(Start: 1 @23301 has 85 MA's), (3, 23274), (4, 23268), (5, 23262), (13, 23202),

Gene: Chako_32 Start: 22115, Stop: 21906, Start Num: 6
Candidate Starts for Chako_32:
(Start: 6 @22115 has 47 MA's), (12, 22064), (17, 22037), (22, 21986),

Gene: Chamuel_32 Start: 22110, Stop: 21901, Start Num: 6
Candidate Starts for Chamuel_32:
(Start: 6 @22110 has 47 MA's), (12, 22059), (17, 22032), (22, 21981),

Gene: Christoph_32 Start: 22126, Stop: 21917, Start Num: 6
Candidate Starts for Christoph_32:
(Start: 6 @22126 has 47 MA's), (12, 22075), (17, 22048), (22, 21997),

Gene: Clancy_32 Start: 22115, Stop: 21906, Start Num: 6
Candidate Starts for Clancy_32:
(Start: 6 @22115 has 47 MA's), (12, 22064), (17, 22037), (22, 21986),

Gene: Convict_33 Start: 22430, Stop: 22188, Start Num: 1
Candidate Starts for Convict_33:
(Start: 1 @22430 has 85 MA's), (2, 22406), (9, 22361), (11, 22349), (16, 22325), (19, 22304), (23, 22259),

Gene: CoraRita_32 Start: 22124, Stop: 21915, Start Num: 6
Candidate Starts for CoraRita_32:
(Start: 6 @22124 has 47 MA's), (12, 22073), (17, 22046), (22, 21995),

Gene: Dave_33 Start: 22418, Stop: 22176, Start Num: 1
Candidate Starts for Dave_33:
(Start: 1 @22418 has 85 MA's), (2, 22394), (9, 22349), (11, 22337), (16, 22313), (19, 22292), (23, 22247),

Gene: Delphidian_33 Start: 22429, Stop: 22187, Start Num: 1
Candidate Starts for Delphidian_33:
(Start: 1 @22429 has 85 MA's), (2, 22405), (9, 22360), (11, 22348), (16, 22324), (19, 22303), (23, 22258),

Gene: Den3_33 Start: 22435, Stop: 22193, Start Num: 1
Candidate Starts for Den3_33:
(Start: 1 @22435 has 85 MA's), (2, 22411), (9, 22366), (11, 22354), (16, 22330), (19, 22309), (23, 22264),

Gene: Dothraki_33 Start: 22432, Stop: 22190, Start Num: 1
Candidate Starts for Dothraki_33:
(Start: 1 @22432 has 85 MA's), (2, 22408), (9, 22363), (11, 22351), (19, 22306), (23, 22261),

Gene: Duocatuli_32 Start: 22115, Stop: 21906, Start Num: 6
Candidate Starts for Duocatuli_32:
(Start: 6 @22115 has 47 MA's), (12, 22064), (17, 22037), (22, 21986),

Gene: Endor_33 Start: 22735, Stop: 22493, Start Num: 1
Candidate Starts for Endor_33:
(Start: 1 @22735 has 85 MA's), (14, 22639), (15, 22636), (19, 22609), (22, 22573),

Gene: Erla_32 Start: 22108, Stop: 21899, Start Num: 6

Candidate Starts for Erla_32:

(Start: 6 @22108 has 47 MA's), (12, 22057), (17, 22030), (22, 21979),

Gene: Espinosa_32 Start: 22126, Stop: 21917, Start Num: 6

Candidate Starts for Espinosa_32:

(Start: 6 @22126 has 47 MA's), (12, 22075), (17, 22048), (22, 21997),

Gene: Etna_32 Start: 22465, Stop: 22223, Start Num: 1

Candidate Starts for Etna_32:

(Start: 1 @22465 has 85 MA's), (12, 22381), (15, 22366), (19, 22339), (23, 22294),

Gene: Etta_32 Start: 22112, Stop: 21903, Start Num: 6

Candidate Starts for Etta_32:

(Start: 6 @22112 has 47 MA's), (12, 22061), (17, 22034), (22, 21983),

Gene: Exploradora_32 Start: 22115, Stop: 21906, Start Num: 6

Candidate Starts for Exploradora_32:

(Start: 6 @22115 has 47 MA's), (12, 22064), (17, 22037), (22, 21986),

Gene: FarmerDoug_32 Start: 22376, Stop: 22146, Start Num: 1

Candidate Starts for FarmerDoug_32:

(Start: 1 @22376 has 85 MA's), (11, 22307), (13, 22298), (18, 22268),

Gene: Figueroism_33 Start: 22417, Stop: 22175, Start Num: 1

Candidate Starts for Figueroism_33:

(Start: 1 @22417 has 85 MA's), (2, 22393), (9, 22348), (11, 22336), (16, 22312), (19, 22291), (23, 22246),

Gene: GardenB_32 Start: 22466, Stop: 22221, Start Num: 1

Candidate Starts for GardenB_32:

(Start: 1 @22466 has 85 MA's), (12, 22379), (15, 22364), (19, 22337), (23, 22292),

Gene: Garey24_32 Start: 22091, Stop: 21882, Start Num: 6

Candidate Starts for Garey24_32:

(Start: 6 @22091 has 47 MA's), (12, 22040), (17, 22013), (22, 21962),

Gene: Gargoyle_33 Start: 22432, Stop: 22190, Start Num: 1

Candidate Starts for Gargoyle_33:

(Start: 1 @22432 has 85 MA's), (2, 22408), (9, 22363), (11, 22351), (16, 22327), (19, 22306), (23, 22261),

Gene: Gelo_32 Start: 22112, Stop: 21903, Start Num: 6

Candidate Starts for Gelo_32:

(Start: 6 @22112 has 47 MA's), (12, 22061), (17, 22034), (22, 21983),

Gene: Gershwin_32 Start: 22128, Stop: 21919, Start Num: 6

Candidate Starts for Gershwin_32:

(Start: 6 @22128 has 47 MA's), (12, 22077), (17, 22050), (22, 21999),

Gene: GoingMerry_33 Start: 22440, Stop: 22198, Start Num: 1

Candidate Starts for GoingMerry_33:

(Start: 1 @22440 has 85 MA's), (2, 22416), (9, 22371), (11, 22359), (16, 22335), (19, 22314), (23, 22269),

Gene: GoneGirl_33 Start: 22507, Stop: 22259, Start Num: 1

Candidate Starts for GoneGirl_33:

(Start: 1 @22507 has 85 MA's), (8, 22456), (12, 22417), (13, 22411), (15, 22402),

Gene: Greys_33 Start: 22428, Stop: 22186, Start Num: 1

Candidate Starts for Greys_33:

(Start: 1 @22428 has 85 MA's), (2, 22404), (9, 22359), (11, 22347), (16, 22323), (19, 22302), (23, 22257),

Gene: Gubbabump_32 Start: 22117, Stop: 21908, Start Num: 6

Candidate Starts for Gubbabump_32:

(Start: 6 @22117 has 47 MA's), (12, 22066), (17, 22039), (22, 21988),

Gene: Hamlet_32 Start: 22463, Stop: 22218, Start Num: 1

Candidate Starts for Hamlet_32:

(Start: 1 @22463 has 85 MA's), (12, 22376), (15, 22361), (19, 22334),

Gene: HanSolo_32 Start: 22115, Stop: 21906, Start Num: 6

Candidate Starts for HanSolo_32:

(Start: 6 @22115 has 47 MA's), (12, 22064), (17, 22037), (22, 21986),

Gene: HankSprout_33 Start: 21995, Stop: 21786, Start Num: 6

Candidate Starts for HankSprout_33:

(Start: 6 @21995 has 47 MA's), (12, 21944), (17, 21917), (22, 21866),

Gene: HavenFinLeoSun_34 Start: 22761, Stop: 22510, Start Num: 1

Candidate Starts for HavenFinLeoSun_34:

(Start: 1 @22761 has 85 MA's), (10, 22680), (13, 22662), (21, 22611),

Gene: HungryHenry_32 Start: 22126, Stop: 21917, Start Num: 6

Candidate Starts for HungryHenry_32:

(Start: 6 @22126 has 47 MA's), (12, 22075), (17, 22048), (22, 21997),

Gene: Ilzat_32 Start: 22125, Stop: 21916, Start Num: 6

Candidate Starts for Ilzat_32:

(Start: 6 @22125 has 47 MA's), (12, 22074), (17, 22047), (22, 21996),

Gene: Inventa_33 Start: 22432, Stop: 22190, Start Num: 1

Candidate Starts for Inventa_33:

(Start: 1 @22432 has 85 MA's), (2, 22408), (9, 22363), (11, 22351), (16, 22327), (19, 22306), (23, 22261),

Gene: Ioannes_33 Start: 22430, Stop: 22188, Start Num: 1

Candidate Starts for Ioannes_33:

(Start: 1 @22430 has 85 MA's), (2, 22406), (9, 22361), (11, 22349), (16, 22325), (19, 22304), (23, 22259),

Gene: Janus167_32 Start: 22115, Stop: 21906, Start Num: 6

Candidate Starts for Janus167_32:

(Start: 6 @22115 has 47 MA's), (12, 22064), (17, 22037), (22, 21986),

Gene: JasonD_35 Start: 22938, Stop: 22690, Start Num: 1

Candidate Starts for JasonD_35:

(Start: 1 @22938 has 85 MA's), (9, 22863), (16, 22827), (19, 22806),

Gene: JasperRussell_32 Start: 22115, Stop: 21906, Start Num: 6

Candidate Starts for JasperRussell_32:

(Start: 6 @22115 has 47 MA's), (12, 22064), (17, 22037), (22, 21986),

Gene: Jenos_36 Start: 23598, Stop: 23347, Start Num: 1

Candidate Starts for Jenos_36:

(Start: 1 @23598 has 85 MA's), (3, 23571), (4, 23565), (5, 23559), (13, 23499),

Gene: Jerbirus_33 Start: 22115, Stop: 21906, Start Num: 6

Candidate Starts for Jerbirus_33:

(Start: 6 @22115 has 47 MA's), (12, 22064), (17, 22037), (22, 21986),

Gene: JeriBeth_32 Start: 21972, Stop: 21763, Start Num: 6

Candidate Starts for JeriBeth_32:

(Start: 6 @21972 has 47 MA's), (12, 21921), (17, 21894), (22, 21843),

Gene: Kale_32 Start: 22130, Stop: 21921, Start Num: 6

Candidate Starts for Kale_32:

(Start: 6 @22130 has 47 MA's), (12, 22079), (17, 22052), (22, 22001),

Gene: KannH_32 Start: 22115, Stop: 21906, Start Num: 6

Candidate Starts for KannH_32:

(Start: 6 @22115 has 47 MA's), (12, 22064), (17, 22037), (22, 21986),

Gene: KellyGreen_33 Start: 22115, Stop: 21906, Start Num: 6

Candidate Starts for KellyGreen_33:

(Start: 6 @22115 has 47 MA's), (12, 22064), (17, 22037), (22, 21986),

Gene: KingJulien_32 Start: 22456, Stop: 22214, Start Num: 1

Candidate Starts for KingJulien_32:

(Start: 1 @22456 has 85 MA's), (12, 22372), (15, 22357), (19, 22330), (23, 22285),

Gene: Klimt_32 Start: 22110, Stop: 21901, Start Num: 6

Candidate Starts for Klimt_32:

(Start: 6 @22110 has 47 MA's), (12, 22059), (17, 22032), (22, 21981),

Gene: Knox_33 Start: 22430, Stop: 22188, Start Num: 1

Candidate Starts for Knox_33:

(Start: 1 @22430 has 85 MA's), (2, 22406), (9, 22361), (11, 22349), (16, 22325), (19, 22304), (23, 22259),

Gene: Kouch_32 Start: 22115, Stop: 21906, Start Num: 6

Candidate Starts for Kouch_32:

(Start: 6 @22115 has 47 MA's), (12, 22064), (17, 22037), (22, 21986),

Gene: Kurt1_33 Start: 22432, Stop: 22190, Start Num: 1

Candidate Starts for Kurt1_33:

(Start: 1 @22432 has 85 MA's), (2, 22408), (9, 22363), (11, 22351), (16, 22327), (19, 22306), (23, 22261),

Gene: Leafus_32 Start: 22598, Stop: 22356, Start Num: 1
Candidate Starts for Leafus_32:
(Start: 1 @22598 has 85 MA's), (12, 22514), (15, 22499), (19, 22472),

Gene: Lovelyunicorn_33 Start: 22431, Stop: 22189, Start Num: 1
Candidate Starts for Lovelyunicorn_33:
(Start: 1 @22431 has 85 MA's), (2, 22407), (9, 22362), (11, 22350), (16, 22326), (19, 22305), (23, 22260),

Gene: Ludgate_33 Start: 22426, Stop: 22184, Start Num: 1
Candidate Starts for Ludgate_33:
(Start: 1 @22426 has 85 MA's), (2, 22402), (9, 22357), (11, 22345), (16, 22321), (19, 22300), (23, 22255),

Gene: MaeLinda_33 Start: 22433, Stop: 22191, Start Num: 1
Candidate Starts for MaeLinda_33:
(Start: 1 @22433 has 85 MA's), (2, 22409), (9, 22364), (11, 22352), (16, 22328), (19, 22307), (23, 22262),

Gene: ManRay_32 Start: 22128, Stop: 21919, Start Num: 6
Candidate Starts for ManRay_32:
(Start: 6 @22128 has 47 MA's), (12, 22077), (17, 22050), (22, 21999),

Gene: Martin_34 Start: 22432, Stop: 22190, Start Num: 1
Candidate Starts for Martin_34:
(Start: 1 @22432 has 85 MA's), (2, 22408), (9, 22363), (11, 22351), (16, 22327), (19, 22306), (23, 22261),

Gene: McGalleon_35 Start: 23815, Stop: 23567, Start Num: 1
Candidate Starts for McGalleon_35:
(Start: 1 @23815 has 85 MA's), (9, 23740), (16, 23704), (19, 23683), (23, 23638),

Gene: Merida02_34 Start: 22429, Stop: 22187, Start Num: 1
Candidate Starts for Merida02_34:
(Start: 1 @22429 has 85 MA's), (2, 22405), (9, 22360), (11, 22348), (16, 22324), (19, 22303), (23, 22258),

Gene: MillyPhilly_33 Start: 22429, Stop: 22187, Start Num: 1
Candidate Starts for MillyPhilly_33:
(Start: 1 @22429 has 85 MA's), (2, 22405), (9, 22360), (11, 22348), (16, 22324), (19, 22303), (20, 22297), (23, 22258),

Gene: MonChoix_31 Start: 22405, Stop: 22175, Start Num: 1
Candidate Starts for MonChoix_31:
(Start: 1 @22405 has 85 MA's), (13, 22330),

Gene: MrWorldwide_33 Start: 22433, Stop: 22191, Start Num: 1
Candidate Starts for MrWorldwide_33:
(Start: 1 @22433 has 85 MA's), (2, 22409), (9, 22364), (11, 22352), (16, 22328), (19, 22307), (23, 22262),

Gene: Nagem_33 Start: 22426, Stop: 22184, Start Num: 1
Candidate Starts for Nagem_33:

(Start: 1 @22426 has 85 MA's), (2, 22402), (9, 22357), (11, 22345), (16, 22321), (19, 22300), (23, 22255),

Gene: Nattles_32 Start: 22115, Stop: 21906, Start Num: 6

Candidate Starts for Nattles_32:

(Start: 6 @22115 has 47 MA's), (12, 22064), (17, 22037), (22, 21986),

Gene: NickSell_33 Start: 22432, Stop: 22190, Start Num: 1

Candidate Starts for NickSell_33:

(Start: 1 @22432 has 85 MA's), (2, 22408), (9, 22363), (11, 22351), (16, 22327), (19, 22306), (23, 22261),

Gene: Oats_32 Start: 22128, Stop: 21919, Start Num: 6

Candidate Starts for Oats_32:

(Start: 6 @22128 has 47 MA's), (12, 22077), (17, 22050), (22, 21999),

Gene: OldNelly_33 Start: 22432, Stop: 22190, Start Num: 1

Candidate Starts for OldNelly_33:

(Start: 1 @22432 has 85 MA's), (2, 22408), (9, 22363), (11, 22351), (16, 22327), (19, 22306), (23, 22261),

Gene: Oxtober96_33 Start: 22431, Stop: 22189, Start Num: 1

Candidate Starts for Oxtober96_33:

(Start: 1 @22431 has 85 MA's), (2, 22407), (9, 22362), (11, 22350), (16, 22326), (19, 22305), (23, 22260),

Gene: Papafritta_32 Start: 22124, Stop: 21915, Start Num: 6

Candidate Starts for Papafritta_32:

(Start: 6 @22124 has 47 MA's), (12, 22073), (17, 22046), (22, 21995),

Gene: ParleG_33 Start: 22433, Stop: 22191, Start Num: 1

Candidate Starts for ParleG_33:

(Start: 1 @22433 has 85 MA's), (2, 22409), (9, 22364), (11, 22352), (16, 22328), (19, 22307), (23, 22262),

Gene: Peep_33 Start: 22418, Stop: 22176, Start Num: 1

Candidate Starts for Peep_33:

(Start: 1 @22418 has 85 MA's), (2, 22394), (9, 22349), (11, 22337), (16, 22313), (19, 22292), (23, 22247),

Gene: Peppino_32 Start: 22455, Stop: 22210, Start Num: 1

Candidate Starts for Peppino_32:

(Start: 1 @22455 has 85 MA's), (12, 22368), (15, 22353), (19, 22326),

Gene: Pherferi_33 Start: 22432, Stop: 22190, Start Num: 1

Candidate Starts for Pherferi_33:

(Start: 1 @22432 has 85 MA's), (2, 22408), (9, 22363), (11, 22351), (16, 22327), (19, 22306), (23, 22261),

Gene: Phiderman_33 Start: 22429, Stop: 22187, Start Num: 1

Candidate Starts for Phiderman_33:

(Start: 1 @22429 has 85 MA's), (2, 22405), (9, 22360), (11, 22348), (16, 22324), (19, 22303), (23, 22258),

Gene: PhillyPhantom_32 Start: 22436, Stop: 22191, Start Num: 1
Candidate Starts for PhillyPhantom_32:
(Start: 1 @22436 has 85 MA's), (12, 22349), (15, 22334), (19, 22307),

Gene: Phireproof_33 Start: 22432, Stop: 22190, Start Num: 1
Candidate Starts for Phireproof_33:
(Start: 1 @22432 has 85 MA's), (2, 22408), (9, 22363), (11, 22351), (16, 22327), (19, 22306), (23, 22261),

Gene: PhredFlintston_33 Start: 22432, Stop: 22190, Start Num: 1
Candidate Starts for PhredFlintston_33:
(Start: 1 @22432 has 85 MA's), (2, 22408), (9, 22363), (11, 22351), (16, 22327), (19, 22306), (23, 22261),

Gene: Phriends_33 Start: 22432, Stop: 22190, Start Num: 1
Candidate Starts for Phriends_33:
(Start: 1 @22432 has 85 MA's), (2, 22408), (9, 22363), (11, 22351), (16, 22327), (19, 22306), (23, 22261),

Gene: Pocket_32 Start: 22113, Stop: 21904, Start Num: 6
Candidate Starts for Pocket_32:
(Start: 6 @22113 has 47 MA's), (12, 22062), (17, 22035), (22, 21984),

Gene: PuppyEggo_33 Start: 22430, Stop: 22188, Start Num: 1
Candidate Starts for PuppyEggo_33:
(Start: 1 @22430 has 85 MA's), (2, 22406), (9, 22361), (11, 22349), (16, 22325), (19, 22304), (23, 22259),

Gene: Raccoon_32 Start: 22421, Stop: 22179, Start Num: 1
Candidate Starts for Raccoon_32:
(Start: 1 @22421 has 85 MA's), (12, 22337), (15, 22322), (19, 22295),

Gene: Rapheph_33 Start: 22432, Stop: 22190, Start Num: 1
Candidate Starts for Rapheph_33:
(Start: 1 @22432 has 85 MA's), (2, 22408), (9, 22363), (11, 22351), (16, 22327), (19, 22306), (23, 22261),

Gene: Raptor_33 Start: 22430, Stop: 22188, Start Num: 1
Candidate Starts for Raptor_33:
(Start: 1 @22430 has 85 MA's), (2, 22406), (9, 22361), (11, 22349), (16, 22325), (19, 22304), (23, 22259),

Gene: Redfield_32 Start: 22462, Stop: 22217, Start Num: 1
Candidate Starts for Redfield_32:
(Start: 1 @22462 has 85 MA's), (12, 22375), (15, 22360), (19, 22333),

Gene: Renzie_33 Start: 22418, Stop: 22176, Start Num: 1
Candidate Starts for Renzie_33:
(Start: 1 @22418 has 85 MA's), (2, 22394), (9, 22349), (11, 22337), (16, 22313), (19, 22292), (23, 22247),

Gene: Riyhil_33 Start: 22432, Stop: 22190, Start Num: 1

Candidate Starts for Riyhil_33:

(Start: 1 @22432 has 85 MA's), (2, 22408), (9, 22363), (11, 22351), (16, 22327), (19, 22306), (23, 22261),

Gene: Robinson_33 Start: 22424, Stop: 22182, Start Num: 1

Candidate Starts for Robinson_33:

(Start: 1 @22424 has 85 MA's), (2, 22400), (9, 22355), (11, 22343), (16, 22319), (19, 22298), (23, 22253),

Gene: Rog141_32 Start: 22115, Stop: 21906, Start Num: 6

Candidate Starts for Rog141_32:

(Start: 6 @22115 has 47 MA's), (12, 22064), (17, 22037), (22, 21986),

Gene: RosieMae_32 Start: 22125, Stop: 21916, Start Num: 6

Candidate Starts for RosieMae_32:

(Start: 6 @22125 has 47 MA's), (12, 22074), (17, 22047), (22, 21996),

Gene: SJay_33 Start: 22427, Stop: 22185, Start Num: 1

Candidate Starts for SJay_33:

(Start: 1 @22427 has 85 MA's), (2, 22403), (9, 22358), (11, 22346), (16, 22322), (19, 22301), (23, 22256),

Gene: Schnapsidee_32 Start: 22456, Stop: 22211, Start Num: 1

Candidate Starts for Schnapsidee_32:

(Start: 1 @22456 has 85 MA's), (12, 22369), (15, 22354), (19, 22327),

Gene: Sedgewig_32 Start: 22107, Stop: 21898, Start Num: 6

Candidate Starts for Sedgewig_32:

(Start: 6 @22107 has 47 MA's), (12, 22056), (17, 22029), (22, 21978),

Gene: ShaiHulud_33 Start: 22430, Stop: 22188, Start Num: 1

Candidate Starts for ShaiHulud_33:

(Start: 1 @22430 has 85 MA's), (2, 22406), (9, 22361), (11, 22349), (16, 22325), (19, 22304), (23, 22259),

Gene: Shee_33 Start: 22429, Stop: 22187, Start Num: 1

Candidate Starts for Shee_33:

(Start: 1 @22429 has 85 MA's), (2, 22405), (9, 22360), (11, 22348), (16, 22324), (19, 22303), (23, 22258),

Gene: SoilGremlin_33 Start: 22429, Stop: 22187, Start Num: 1

Candidate Starts for SoilGremlin_33:

(Start: 1 @22429 has 85 MA's), (2, 22405), (9, 22360), (11, 22348), (16, 22324), (19, 22303), (23, 22258),

Gene: SolidSnake_34 Start: 22432, Stop: 22190, Start Num: 1

Candidate Starts for SolidSnake_34:

(Start: 1 @22432 has 85 MA's), (2, 22408), (9, 22363), (11, 22351), (16, 22327), (19, 22306), (23, 22261),

Gene: SonOfLevi_32 Start: 22110, Stop: 21901, Start Num: 6

Candidate Starts for SonOfLevi_32:

(Start: 6 @22110 has 47 MA's), (12, 22059), (17, 22032), (22, 21981),

Gene: Soror1_32 Start: 22465, Stop: 22223, Start Num: 1

Candidate Starts for Soror1_32:

(Start: 1 @22465 has 85 MA's), (12, 22381), (15, 22366), (19, 22339), (23, 22294),

Gene: Stanktossa_33 Start: 22432, Stop: 22190, Start Num: 1

Candidate Starts for Stanktossa_33:

(Start: 1 @22432 has 85 MA's), (2, 22408), (9, 22363), (11, 22351), (19, 22306), (23, 22261),

Gene: StingRay_32 Start: 22125, Stop: 21916, Start Num: 6

Candidate Starts for StingRay_32:

(Start: 6 @22125 has 47 MA's), (12, 22074), (17, 22047), (22, 21996),

Gene: StirfryIV_32 Start: 22115, Stop: 21906, Start Num: 6

Candidate Starts for StirfryIV_32:

(Start: 6 @22115 has 47 MA's), (12, 22064), (17, 22037), (22, 21986),

Gene: Stormbreaker8_32 Start: 22456, Stop: 22214, Start Num: 1

Candidate Starts for Stormbreaker8_32:

(Start: 1 @22456 has 85 MA's), (12, 22372), (15, 22357), (19, 22330), (23, 22285),

Gene: Strathdee_33 Start: 22431, Stop: 22189, Start Num: 1

Candidate Starts for Strathdee_33:

(Start: 1 @22431 has 85 MA's), (2, 22407), (9, 22362), (11, 22350), (16, 22326), (19, 22305), (23, 22260),

Gene: Superfresh_33 Start: 22418, Stop: 22176, Start Num: 1

Candidate Starts for Superfresh_33:

(Start: 1 @22418 has 85 MA's), (2, 22394), (9, 22349), (11, 22337), (16, 22313), (19, 22292), (23, 22247),

Gene: Symere_32 Start: 22105, Stop: 21896, Start Num: 6

Candidate Starts for Symere_32:

(Start: 6 @22105 has 47 MA's), (12, 22054), (17, 22027), (22, 21976),

Gene: TatarkaPM_33 Start: 22432, Stop: 22190, Start Num: 1

Candidate Starts for TatarkaPM_33:

(Start: 1 @22432 has 85 MA's), (2, 22408), (9, 22363), (11, 22351), (16, 22327), (19, 22306), (23, 22261),

Gene: Teagan_33 Start: 22426, Stop: 22184, Start Num: 1

Candidate Starts for Teagan_33:

(Start: 1 @22426 has 85 MA's), (2, 22402), (9, 22357), (11, 22345), (16, 22321), (19, 22300), (23, 22255),

Gene: TeddyBear_32 Start: 22128, Stop: 21919, Start Num: 6

Candidate Starts for TeddyBear_32:

(Start: 6 @22128 has 47 MA's), (12, 22077), (17, 22050), (22, 21999),

Gene: Tenda_32 Start: 22126, Stop: 21917, Start Num: 6

Candidate Starts for Tenda_32:

(Start: 6 @22126 has 47 MA's), (12, 22075), (17, 22048), (22, 21997),

Gene: Thompsonsone_33 Start: 22430, Stop: 22188, Start Num: 1

Candidate Starts for Thompsonsone_33:

(Start: 1 @22430 has 85 MA's), (2, 22406), (9, 22361), (11, 22349), (16, 22325), (19, 22304), (23, 22259),

Gene: Thorongil_33 Start: 22430, Stop: 22188, Start Num: 1

Candidate Starts for Thorongil_33:

(Start: 1 @22430 has 85 MA's), (2, 22406), (7, 22385), (9, 22361), (11, 22349), (16, 22325), (19, 22304), (23, 22259),

Gene: TinSulphur_33 Start: 22432, Stop: 22190, Start Num: 1

Candidate Starts for TinSulphur_33:

(Start: 1 @22432 has 85 MA's), (2, 22408), (9, 22363), (11, 22351), (16, 22327), (19, 22306), (23, 22261),

Gene: Velene_33 Start: 22431, Stop: 22189, Start Num: 1

Candidate Starts for Velene_33:

(Start: 1 @22431 has 85 MA's), (2, 22407), (9, 22362), (11, 22350), (16, 22326), (19, 22305), (23, 22260),

Gene: Vispistious_33 Start: 22430, Stop: 22188, Start Num: 1

Candidate Starts for Vispistious_33:

(Start: 1 @22430 has 85 MA's), (2, 22406), (9, 22361), (11, 22349), (16, 22325), (19, 22304), (23, 22259),

Gene: WildNOut_33 Start: 22430, Stop: 22188, Start Num: 1

Candidate Starts for WildNOut_33:

(Start: 1 @22430 has 85 MA's), (2, 22406), (9, 22361), (11, 22349), (16, 22325), (19, 22304), (23, 22259),

Gene: Winzigespinne_32 Start: 22114, Stop: 21905, Start Num: 6

Candidate Starts for Winzigespinne_32:

(Start: 6 @22114 has 47 MA's), (12, 22063), (17, 22036), (22, 21985),

Gene: Zada_33 Start: 22411, Stop: 22169, Start Num: 1

Candidate Starts for Zada_33:

(Start: 1 @22411 has 85 MA's), (2, 22387), (9, 22342), (11, 22330), (16, 22306), (19, 22285), (23, 22240),