

Pham 215814



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 215814 Report

This analysis was run 02/22/25 on database version 588.

Pham number 215814 has 226 members, 15 are drafts.

Phages represented in each track:

- Track 1 : Drake94_15, PeaceMeal1_15, DroogsArmy_17, HINdeR_16, KittenMittens_15, Timshel_17, Poompha_15, Severus_15
- Track 2 : Munch_17, Gilberta_17, Petersenfast_16, Jabith_17, Timothy_17, Sham4_17, TinyTimmy_17, Joselito_17, Aneem_17, Et2Brutus_16, Bachome_17, Mulciber_17, MaCh_17, Lucivia_17, Bud_17, Flaverint_17, Fibonacci_17, Ebony_17, Mabel_17, Orange_17, Bowtie_17, Hutc2_17, Insomnia_17, Salz_17, Snape_17
- Track 3 : TNguyen7_16, Marchesa_16, HelDan_16, Bugatti_16, Pistachio_17, Heathen_16, Puppy_17, Scout_16, Kachowdy_16, BlueBird_17, Giroux_16, SaturnRing_16, Idleandcovert_16, DropBear_16
- Track 4 : Veracruz_16, Panamaxus_17
- Track 5 : B1_14, MK4_16, JF4_16, JF2_16, Fred313_16
- Track 6 : BabyRay_16
- Track 7 : Rockstar_16, Isca_16
- Track 8 : Phantastic_16
- Track 9 : Funston_16, Thanksgivukkah_16, OKCentral2016_16, Goose_16, Eaglepride_17, DontArgue_15, Iracema64_16, Albee_16, Cintron_16, BubbleTrouble_16, Wizard007_16, Shaka_16, Huxley_16, Flux_16, Palestino_16, Eris_16, Spino_16, Annyong_16, Kremtemulon_16, Cerulean_16, Burger_15, Romney_16, Lorenzo_16, Pumbaa_16, Kratark_16, Taquarus_16, Kingmustik0402_16, TroyPia_16, Baby16_16, Pipcraft_16, CentreCat_16, Kyee_16, Maverick_16, KFPPoly_16, Cocoaberry_16, Millski_16, JoongJeon_16, Eagle_15, Melvin_16, ChampagnePapi_16, Commander_16, Bombshell_16, Nemo27_16, PeterPeter_16, Dhanush_16, Trike_14, Mayonnaise_16, LittleB_16, Avle17_16, NotAPhaseMom_16, Ulysses_15, Wilbur_16, Mazhar510_16, SeniorClean_15, Gadost_16, Chaph_16, Houdini22_16, Chupacabra_16, Phighter1804_16, Medusa_16, Connomayer_16, Wander_16, Felipe_16, SheldonCooper_16, LHTSCC_16, DirtyDunning_16, Caelakin_16, BangNhom_15, Morrow_16, Eros_16, Obama12_16, Bruiser_16, Happiness_16, Phacado_16, Koan_15, LochMonster_16
- Track 10 : Abdiel_16, PetiteSangsue_16, Clarenza_16, Maxo_16, Wile_16, Katalie136_16, Noelle_16, Badger_16, AbbyssRanger_16, Eapen_16, YoSam321_16, Backyardigan_16, Eurydice_16, Ohfah_16, Achebe_16, Sparxx_16, LeoAvram_16, TiroTheta9_16, Morpher26_16, Holli_16, Perplexer_16, ICleared_16, Relief_16, Bumblebee11_16, Kampy_16, TinaFeyge_16, Shygu2_16, Ruin_16, Nyxis_16, Polymorphads_16, LappelDuVide_16, Datway_16, TygerBlood_16, Jaykayelowell_16, Lemur_16, BellusTerra_16, Lunsford_17, Xena_16, Cici_16, JetBlade_16, HamSlice_15, Sabertooth_16, Skipitt_16, Arturo_15, Peaches_16
- Track 11 : Cindaradix_15, AvatarAhPeg_16, Stink_16, Mundrea_16

- Track 12 : Sheen_18, FlyCatcher_20, Toro_19
- Track 13 : PP_26
- Track 14 : Bonanza_13, Yogi_13, AppleCloud_11, Krishelle_13, Rasputin_13, Bryce_13, BobbyDazzler_13, Yoncess_13, Hiro_13
- Track 15 : Erik_13
- Track 16 : Alatin_13, Espica_13, CosmicSans_13, RexFury_13, RER2_6, Bradshaw_13, Swann_13, Lillie_13, Nancinator_13, Gollum_13, StCroix_13, Rhodalysa_13, Naiad_13, UhSalsa_13, TWAMP_13, Belenaria_13, Phrankenstein_13
- Track 17 : Alpacados_12
- Track 18 : Harlequin_13, AngryOrchard_12, Dinger_13, Partridge_13, Jester_13, Takoda_13
- Track 19 : Natosaleda_13, Shuman_13
- Track 20 : PhorbesPhlower_7, Morkie_7
- Track 21 : Lucky10_7

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

The start number called the most often in the published annotations is 7, it was called in 206 of the 211 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AbbysRanger_16, Abdiel_16, Achebe_16, Alatin_13, Albee_16, Alpacados_12, Aneem_17, AngryOrchard_12, Annyong_16, AppleCloud_11, Arturo_15, AvatarAhPeg_16, Avle17_16, B1_14, Baby16_16, BabyRay_16, Bachome_17, Backyardigan_16, Badger_16, BangNhom_15, Belenaria_13, BellusTerra_16, BlueBird_17, BobbyDazzler_13, Bombshell_16, Bonanza_13, Bowtie_17, Bradshaw_13, Bruiser_16, Bryce_13, BubbleTrouble_16, Bud_17, Bugatti_16, Bumblebee11_16, Burger_15, Caelakin_16, CentreCat_16, Cerulean_16, ChampagnePapi_16, Chaph_16, Chupacabra_16, Cici_16, Cindaradix_15, Cintron_16, Clarenza_16, Cocoaberry_16, Commander_16, Connomayer_16, CosmicSans_13, Datway_16, Dhanush_16, Dinger_13, DirtyDunning_16, DontArgue_15, Drake94_15, DroogsArmy_17, DropBear_16, Eagle_15, Eaglepride_17, Eapen_16, Ebony_17, Erik_13, Eris_16, Eros_16, Espica_13, Et2Brutus_16, Eurydice_16, Fibonacci_17, Flaverint_17, Flux_16, FlyCatcher_20, Fred313_16, Funston_16, Gadost_16, Gilberta_17, Giroux_16, Gollum_13, Goose_16, HINdeR_16, HamSlice_15, Happiness_16, Harlequin_13, Heathen_16, HelDan_16, Hiro_13, Holli_16, Houdini22_16, Hutc2_17, Huxley_16, ICleared_16, Idleandcovert_16, Insomnia_17, Iracema64_16, Isca_16, JF2_16, JF4_16, Jabith_17, Jaykayelowell_16, Jester_13, JetBlade_16, JoongJeon_16, Joselito_17, KFPoly_16, Kachowdy_16, Kampy_16, Katalie136_16, Kingmustik0402_16, KittenMittens_15, Koan_15, Kratark_16, Kremtemulon_16, Krishelle_13, Kyee_16, LHTSCC_16, LappelDuVide_16, Lemur_16, LeoAvram_16, Lillie_13, LittleB_16, LochMonster_16, Lorenzo_16, Lucivia_17, Lunsford_17, MK4_16, MaCh_17, Mabel_17, Marchesa_16, Maverick_16, Maxo_16, Mayonnaise_16, Mazhar510_16, Medusa_16, Melvin_16, Millski_16, Morpher26_16, Morrow_16, Mulciber_17, Munch_17, Mundrea_16, Naiad_13, Nancinator_13, Natosaleda_13, Nemo27_16, Noelle_16, NotAPhaseMom_16, Nyxis_16, OKCentral2016_16, Obama12_16, Ohfah_16, Orange_17, PP_26, Palestino_16, Partridge_13, PeaceMeal1_15, Peaches_16, Perplexer_16, PeterPeter_16, Petersenfast_16, PetiteSangsue_16, Phacado_16,

Phantastic_16, Phelipe_16, Phighter1804_16, Phrankenstein_13, Pipcraft_16, Pistachio_17, Polymorphads_16, Poompha_15, Pumbaa_16, Puppy_17, RER2_6, Rasputin_13, Relief_16, RexFury_13, Rhodalysa_13, Rockstar_16, Romney_16, Ruin_16, Sabertooth_16, Salz_17, SaturnRing_16, Scout_16, SenorClean_15, Severus_15, Shaka_16, Sham4_17, Sheen_18, SheldonCooper_16, Shuman_13, Shygu2_16, Skipitt_16, Snape_17, Sparxx_16, Spino_16, StCroix_13, Stink_16, Swann_13, TNguyen7_16, TWAMP_13, Takoda_13, Taquarus_16, Thanksgivukkah_16, Timothy_17, Timshel_17, TinaFeyge_16, TinyTimmy_17, TiroTheta9_16, Toro_19, Trike_14, TroyPia_16, TygerBlood_16, UhSalsa_13, Ulysses_15, Wander_16, Wilbur_16, Wile_16, Wizard007_16, Xena_16, YoSam321_16, Yogi_13, Yoncess_13,

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

- Lucky10_7, Panamaxus_17, Veracruz_16,

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

- Morkie_7, PhorbesPhlower_7,

Summary by start number:

Start 6:

- Found in 2 of 226 (0.9%) of genes in pham
- Manual Annotations of this start: 2 of 211
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Panamaxus_17 (A3), Veracruz_16 (A3),

Start 7:

- Found in 224 of 226 (99.1%) of genes in pham
- Manual Annotations of this start: 206 of 211
- Called 98.7% of time when present
- Phage (with cluster) where this start called: AbbysRanger_16 (A4), Abdiel_16 (A4), Achebe_16 (A4), Alatin_13 (CA), Albee_16 (A4), Alpacados_12 (CA), Aneem_17 (A11), AngryOrchard_12 (CA), Annyong_16 (A4), AppleCloud_11 (CA), Arturo_15 (A4), AvatarAhPeg_16 (A4), Avle17_16 (A4), B1_14 (A3), Baby16_16 (A4), BabyRay_16 (A3), Bachome_17 (A11), Backyardigan_16 (A4), Badger_16 (A4), BangNhom_15 (A4), Belenaria_13 (CA), BellusTerra_16 (A4), BlueBird_17 (A3), BobbyDazzler_13 (CA), Bombshell_16 (A4), Bonanza_13 (CA), Bowtie_17 (A11), Bradshaw_13 (CA), Bruiser_16 (A4), Bryce_13 (CA), BubbleTrouble_16 (A4), Bud_17 (A11), Bugatti_16 (A3), Bumblebee11_16 (A4), Burger_15 (A4), Caelakin_16 (A4), CentreCat_16 (A4), Cerulean_16 (A4), ChampagnePapi_16 (A4), Chaph_16 (A4), Chupacabra_16 (A10), Cici_16 (A4), Cindaradix_15 (A4), Cintron_16 (A4), Clarenza_16 (A4), Cocoaberry_16 (A4), Commander_16 (A4), Connomayer_16 (A4), CosmicSans_13 (CA), Datway_16 (A4), Dhanush_16 (A4), Dinger_13 (CA), DirtyDunning_16 (A4), DontArgue_15 (A10), Drake94_15 (A10), DroogsArmy_17 (A7), DropBear_16 (A3), Eagle_15 (A4), Eaglepride_17 (A10), Eapen_16 (A4), Ebony_17 (A11), Erik_13 (CA), Eris_16 (A4), Eros_16 (A4), Espica_13 (CA), Et2Brutus_16 (A11), Eurydice_16 (A4), Fibonacci_17 (A11), Flaverint_17 (A11), Flux_16 (A4), FlyCatcher_20 (A7), Fred313_16 (A3), Funston_16 (A4), Gadost_16 (A4), Gilberta_17 (A11), Giroux_16 (A3), Gollum_13 (CA), Goose_16 (A10), HINdeR_16 (A7), HamSlice_15 (A4), Happiness_16 (A4), Harlequin_13 (CA), Heathen_16 (A3), HelDan_16 (A3), Hiro_13 (CA), Holli_16 (A4), Houdini22_16 (A4), Hutc2_17 (A11), Huxley_16 (A4), ICleared_16 (A4), Idleandcovert_16 (A3), Insomnia_17 (A11), Iracema64_16 (A4), Isca_16 (A3), JF2_16 (A3), JF4_16 (A3),

Jabith_17 (A11), Jaykayelowell_16 (A4), Jester_13 (CA), JetBlade_16 (A4), JoongJeon_16 (A4), Joselito_17 (A11), KFPoly_16 (A4), Kachowdy_16 (A3), Kamy_16 (A4), Katalie136_16 (A4), Kingmustik0402_16 (A4), KittenMittens_15 (A10), Koan_15 (A4), Kratark_16 (A4), Kremtemulon_16 (A4), Krishelle_13 (CA), Kyee_16 (A4), LHTSCC_16 (A4), LappelDuVide_16 (A4), Lemur_16 (A4), LeoAvram_16 (A4), Lillie_13 (CA), LittleB_16 (A4), LochMonster_16 (A4), Lorenzo_16 (A4), Lucivia_17 (A11), Lunsford_17 (A4), MK4_16 (A3), MaCh_17 (A11), Mabel_17 (A11), Marchesa_16 (A3), Maverick_16 (A4), Maxo_16 (A4), Mayonnaise_16 (A4), Mazhar510_16 (A4), Medusa_16 (A4), Melvin_16 (A4), Millski_16 (A4), Morpher26_16 (A4), Morrow_16 (A4), Mulciber_17 (A11), Munch_17 (A11), Mundrea_16 (A4), Naiad_13 (CA), Nancinator_13 (CA), Natosaleda_13 (CA), Nemo27_16 (A4), Noelle_16 (A4), NotAPhaseMom_16 (A4), Nyxis_16 (A4), OKCentral2016_16 (A10), Obama12_16 (A4), Ohfah_16 (A4), Orange_17 (A11), PP_26 (A7), Palestino_16 (A4), Partridge_13 (CA), PeaceMeal1_15 (A10), Peaches_16 (A4), Perplexer_16 (A4), PeterPeter_16 (A4), Petersenfast_16 (A11), PetiteSangsue_16 (A4), Phacado_16 (A4), Phantastic_16 (A3), Phelipe_16 (A4), Phighter1804_16 (A4), Phrankenstein_13 (CA), Pipcraft_16 (A4), Pistachio_17 (A3), Polymorphads_16 (A4), Poompha_15 (A10), Pumbaa_16 (A4), Puppy_17 (A3), RER2_6 (CA), Rasputin_13 (CA), Relief_16 (A4), RexFury_13 (CA), Rhodalysa_13 (CA), Rockstar_16 (A3), Romney_16 (A4), Ruin_16 (A4), Sabertooth_16 (A4), Salz_17 (A11), SaturnRing_16 (A3), Scout_16 (A3), SenorClean_15 (A4), Severus_15 (A10), Shaka_16 (A4), Sham4_17 (A11), Sheen_18 (A7), SheldonCooper_16 (A4), Shuman_13 (CA), Shygu2_16 (A4), Skipitt_16 (A4), Snape_17 (A11), Sparxx_16 (A4), Spino_16 (A4), StCroix_13 (CA), Stink_16 (A4), Swann_13 (CA), TNguyen7_16 (A3), TWAMP_13 (CA), Takoda_13 (CA), Taquarus_16 (A4), Thanksgivukkah_16 (A4), Timothy_17 (A11), Timshel_17 (A7), TinaFeyge_16 (A4), TinyTimmy_17 (A11), TiroTheta9_16 (A4), Toro_19 (A7), Trike_14 (A10), TroyPia_16 (A4), TygerBlood_16 (A4), UhSalsa_13 (CA), Ulysses_15 (A4), Wander_16 (A4), Wilbur_16 (A4), Wile_16 (A4), Wizard007_16 (A4), Xena_16 (A4), YoSam321_16 (A4), Yogi_13 (CA), Yoncess_13 (CA),

Start 8:

- Found in 3 of 226 (1.3%) of genes in pham
- Manual Annotations of this start: 3 of 211
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Lucky10_7 (DH), Morkie_7 (DH), PhorbesPhlower_7 (DH),

Summary by clusters:

There are 7 clusters represented in this pham: A11, A10, DH, CA, A3, A4, A7,

Info for manual annotations of cluster A10:

- Start number 7 was manually annotated 10 times for cluster A10.

Info for manual annotations of cluster A11:

- Start number 7 was manually annotated 24 times for cluster A11.

Info for manual annotations of cluster A3:

- Start number 6 was manually annotated 2 times for cluster A3.
- Start number 7 was manually annotated 17 times for cluster A3.

Info for manual annotations of cluster A4:

- Start number 7 was manually annotated 115 times for cluster A4.

Info for manual annotations of cluster A7:

- Start number 7 was manually annotated 5 times for cluster A7.

Info for manual annotations of cluster CA:

- Start number 7 was manually annotated 35 times for cluster CA.

Info for manual annotations of cluster DH:

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

Gene Information:

Gene: AbbysRanger_16 Start: 12505, Stop: 12702, Start Num: 7

Candidate Starts for AbbysRanger_16:

(Start: 7 @12505 has 206 MA's),

Gene: Abdiel_16 Start: 12475, Stop: 12681, Start Num: 7

Candidate Starts for Abdiel_16:

(Start: 7 @12475 has 206 MA's),

Gene: Achebe_16 Start: 12484, Stop: 12681, Start Num: 7

Candidate Starts for Achebe_16:

(Start: 7 @12484 has 206 MA's),

Gene: Alatin_13 Start: 8707, Stop: 8913, Start Num: 7

Candidate Starts for Alatin_13:

(Start: 7 @8707 has 206 MA's), (17, 8800), (20, 8890),

Gene: Albee_16 Start: 12478, Stop: 12684, Start Num: 7

Candidate Starts for Albee_16:

(Start: 7 @12478 has 206 MA's),

Gene: Alpacados_12 Start: 8637, Stop: 8843, Start Num: 7

Candidate Starts for Alpacados_12:

(3, 8589), (Start: 7 @8637 has 206 MA's),

Gene: Aneem_17 Start: 13757, Stop: 13924, Start Num: 7

Candidate Starts for Aneem_17:

(5, 13739), (Start: 7 @13757 has 206 MA's), (12, 13793), (16, 13841),

Gene: AngryOrchard_12 Start: 8620, Stop: 8826, Start Num: 7

Candidate Starts for AngryOrchard_12:

(3, 8572), (Start: 7 @8620 has 206 MA's), (17, 8713),

Gene: Annyong_16 Start: 12479, Stop: 12685, Start Num: 7

Candidate Starts for Annyong_16:

(Start: 7 @12479 has 206 MA's),

Gene: AppleCloud_11 Start: 8384, Stop: 8566, Start Num: 7

Candidate Starts for AppleCloud_11:

(3, 8336), (Start: 7 @8384 has 206 MA's),

Gene: Arturo_15 Start: 12589, Stop: 12795, Start Num: 7

Candidate Starts for Arturo_15:

(Start: 7 @12589 has 206 MA's),

Gene: AvatarAhPeg_16 Start: 12446, Stop: 12640, Start Num: 7

Candidate Starts for AvatarAhPeg_16:

(Start: 7 @12446 has 206 MA's),

Gene: Avle17_16 Start: 12478, Stop: 12684, Start Num: 7

Candidate Starts for Avle17_16:

(Start: 7 @12478 has 206 MA's),

Gene: B1_14 Start: 11811, Stop: 11987, Start Num: 7

Candidate Starts for B1_14:

(Start: 7 @11811 has 206 MA's), (13, 11850), (14, 11862),

Gene: Baby16_16 Start: 12487, Stop: 12693, Start Num: 7

Candidate Starts for Baby16_16:

(Start: 7 @12487 has 206 MA's),

Gene: BabyRay_16 Start: 12381, Stop: 12560, Start Num: 7

Candidate Starts for BabyRay_16:

(Start: 7 @12381 has 206 MA's), (12, 12417), (13, 12420),

Gene: Bachome_17 Start: 13754, Stop: 13921, Start Num: 7

Candidate Starts for Bachome_17:

(5, 13736), (Start: 7 @13754 has 206 MA's), (12, 13790), (16, 13838),

Gene: Backyardigan_16 Start: 12496, Stop: 12693, Start Num: 7

Candidate Starts for Backyardigan_16:

(Start: 7 @12496 has 206 MA's),

Gene: Badger_16 Start: 12485, Stop: 12682, Start Num: 7

Candidate Starts for Badger_16:

(Start: 7 @12485 has 206 MA's),

Gene: BangNhom_15 Start: 12456, Stop: 12668, Start Num: 7

Candidate Starts for BangNhom_15:

(Start: 7 @12456 has 206 MA's),

Gene: Belenaria_13 Start: 8707, Stop: 8913, Start Num: 7

Candidate Starts for Belenaria_13:

(Start: 7 @8707 has 206 MA's), (17, 8800), (20, 8890),

Gene: BellusTerra_16 Start: 12475, Stop: 12681, Start Num: 7

Candidate Starts for BellusTerra_16:

(Start: 7 @12475 has 206 MA's),

Gene: BlueBird_17 Start: 12155, Stop: 12334, Start Num: 7

Candidate Starts for BlueBird_17:

(Start: 7 @12155 has 206 MA's), (12, 12191), (13, 12194), (19, 12299),

Gene: BobbyDazzler_13 Start: 8746, Stop: 8952, Start Num: 7
Candidate Starts for BobbyDazzler_13:
(3, 8698), (Start: 7 @8746 has 206 MA's),

Gene: Bombshell_16 Start: 12478, Stop: 12684, Start Num: 7
Candidate Starts for Bombshell_16:
(Start: 7 @12478 has 206 MA's),

Gene: Bonanza_13 Start: 8675, Stop: 8881, Start Num: 7
Candidate Starts for Bonanza_13:
(3, 8627), (Start: 7 @8675 has 206 MA's),

Gene: Bowtie_17 Start: 13757, Stop: 13924, Start Num: 7
Candidate Starts for Bowtie_17:
(5, 13739), (Start: 7 @13757 has 206 MA's), (12, 13793), (16, 13841),

Gene: Bradshaw_13 Start: 8707, Stop: 8913, Start Num: 7
Candidate Starts for Bradshaw_13:
(Start: 7 @8707 has 206 MA's), (17, 8800), (20, 8890),

Gene: Bruiser_16 Start: 12478, Stop: 12684, Start Num: 7
Candidate Starts for Bruiser_16:
(Start: 7 @12478 has 206 MA's),

Gene: Bryce_13 Start: 8675, Stop: 8881, Start Num: 7
Candidate Starts for Bryce_13:
(3, 8627), (Start: 7 @8675 has 206 MA's),

Gene: BubbleTrouble_16 Start: 12478, Stop: 12684, Start Num: 7
Candidate Starts for BubbleTrouble_16:
(Start: 7 @12478 has 206 MA's),

Gene: Bud_17 Start: 13763, Stop: 13930, Start Num: 7
Candidate Starts for Bud_17:
(5, 13745), (Start: 7 @13763 has 206 MA's), (12, 13799), (16, 13847),

Gene: Bugatti_16 Start: 12155, Stop: 12334, Start Num: 7
Candidate Starts for Bugatti_16:
(Start: 7 @12155 has 206 MA's), (12, 12191), (13, 12194), (19, 12299),

Gene: Bumblebee11_16 Start: 12487, Stop: 12684, Start Num: 7
Candidate Starts for Bumblebee11_16:
(Start: 7 @12487 has 206 MA's),

Gene: Burger_15 Start: 12478, Stop: 12684, Start Num: 7
Candidate Starts for Burger_15:
(Start: 7 @12478 has 206 MA's),

Gene: Caelakin_16 Start: 12478, Stop: 12684, Start Num: 7
Candidate Starts for Caelakin_16:
(Start: 7 @12478 has 206 MA's),

Gene: CentreCat_16 Start: 12479, Stop: 12685, Start Num: 7
Candidate Starts for CentreCat_16:
(Start: 7 @12479 has 206 MA's),

Gene: Cerulean_16 Start: 12457, Stop: 12669, Start Num: 7
Candidate Starts for Cerulean_16:
(Start: 7 @12457 has 206 MA's),

Gene: ChampagnePapi_16 Start: 12456, Stop: 12668, Start Num: 7
Candidate Starts for ChampagnePapi_16:
(Start: 7 @12456 has 206 MA's),

Gene: Chaph_16 Start: 12487, Stop: 12693, Start Num: 7
Candidate Starts for Chaph_16:
(Start: 7 @12487 has 206 MA's),

Gene: Chupacabra_16 Start: 12256, Stop: 12441, Start Num: 7
Candidate Starts for Chupacabra_16:
(Start: 7 @12256 has 206 MA's),

Gene: Cici_16 Start: 12478, Stop: 12675, Start Num: 7
Candidate Starts for Cici_16:
(Start: 7 @12478 has 206 MA's),

Gene: Cindaradix_15 Start: 12200, Stop: 12409, Start Num: 7
Candidate Starts for Cindaradix_15:
(Start: 7 @12200 has 206 MA's),

Gene: Cintron_16 Start: 12526, Stop: 12732, Start Num: 7
Candidate Starts for Cintron_16:
(Start: 7 @12526 has 206 MA's),

Gene: Clarenza_16 Start: 12475, Stop: 12681, Start Num: 7
Candidate Starts for Clarenza_16:
(Start: 7 @12475 has 206 MA's),

Gene: Cocoaberry_16 Start: 12482, Stop: 12688, Start Num: 7
Candidate Starts for Cocoaberry_16:
(Start: 7 @12482 has 206 MA's),

Gene: Commander_16 Start: 12478, Stop: 12684, Start Num: 7
Candidate Starts for Commander_16:
(Start: 7 @12478 has 206 MA's),

Gene: Connomayer_16 Start: 12478, Stop: 12684, Start Num: 7
Candidate Starts for Connomayer_16:
(Start: 7 @12478 has 206 MA's),

Gene: CosmicSans_13 Start: 8707, Stop: 8913, Start Num: 7
Candidate Starts for CosmicSans_13:
(Start: 7 @8707 has 206 MA's), (17, 8800), (20, 8890),

Gene: Datway_16 Start: 12496, Stop: 12693, Start Num: 7

Candidate Starts for Datway_16:
(Start: 7 @12496 has 206 MA's),

Gene: Dhanush_16 Start: 12481, Stop: 12687, Start Num: 7
Candidate Starts for Dhanush_16:
(Start: 7 @12481 has 206 MA's),

Gene: Dinger_13 Start: 8671, Stop: 8877, Start Num: 7
Candidate Starts for Dinger_13:
(3, 8623), (Start: 7 @8671 has 206 MA's), (17, 8764),

Gene: DirtyDunning_16 Start: 12474, Stop: 12680, Start Num: 7
Candidate Starts for DirtyDunning_16:
(Start: 7 @12474 has 206 MA's),

Gene: DontArgue_15 Start: 10509, Stop: 10697, Start Num: 7
Candidate Starts for DontArgue_15:
(Start: 7 @10509 has 206 MA's),

Gene: Drake94_15 Start: 10353, Stop: 10532, Start Num: 7
Candidate Starts for Drake94_15:
(Start: 7 @10353 has 206 MA's),

Gene: DroogsArmy_17 Start: 13841, Stop: 14029, Start Num: 7
Candidate Starts for DroogsArmy_17:
(Start: 7 @13841 has 206 MA's),

Gene: DropBear_16 Start: 12215, Stop: 12394, Start Num: 7
Candidate Starts for DropBear_16:
(Start: 7 @12215 has 206 MA's), (12, 12251), (13, 12254), (19, 12359),

Gene: Eagle_15 Start: 12478, Stop: 12684, Start Num: 7
Candidate Starts for Eagle_15:
(Start: 7 @12478 has 206 MA's),

Gene: Eaglepride_17 Start: 12258, Stop: 12449, Start Num: 7
Candidate Starts for Eaglepride_17:
(Start: 7 @12258 has 206 MA's),

Gene: Eapen_16 Start: 12477, Stop: 12683, Start Num: 7
Candidate Starts for Eapen_16:
(Start: 7 @12477 has 206 MA's),

Gene: Ebony_17 Start: 13806, Stop: 13973, Start Num: 7
Candidate Starts for Ebony_17:
(5, 13788), (Start: 7 @13806 has 206 MA's), (12, 13842), (16, 13890),

Gene: Erik_13 Start: 8706, Stop: 8912, Start Num: 7
Candidate Starts for Erik_13:
(4, 8685), (Start: 7 @8706 has 206 MA's), (17, 8799), (20, 8889),

Gene: Eris_16 Start: 12478, Stop: 12684, Start Num: 7
Candidate Starts for Eris_16:

(Start: 7 @12478 has 206 MA's),

Gene: Eros_16 Start: 12478, Stop: 12684, Start Num: 7

Candidate Starts for Eros_16:

(Start: 7 @12478 has 206 MA's),

Gene: Espica_13 Start: 8707, Stop: 8913, Start Num: 7

Candidate Starts for Espica_13:

(Start: 7 @8707 has 206 MA's), (17, 8800), (20, 8890),

Gene: Et2Brutus_16 Start: 13760, Stop: 13927, Start Num: 7

Candidate Starts for Et2Brutus_16:

(5, 13742), (Start: 7 @13760 has 206 MA's), (12, 13796), (16, 13844),

Gene: Eurydice_16 Start: 12475, Stop: 12681, Start Num: 7

Candidate Starts for Eurydice_16:

(Start: 7 @12475 has 206 MA's),

Gene: Fibonacci_17 Start: 13760, Stop: 13927, Start Num: 7

Candidate Starts for Fibonacci_17:

(5, 13742), (Start: 7 @13760 has 206 MA's), (12, 13796), (16, 13844),

Gene: Flaverint_17 Start: 13757, Stop: 13924, Start Num: 7

Candidate Starts for Flaverint_17:

(5, 13739), (Start: 7 @13757 has 206 MA's), (12, 13793), (16, 13841),

Gene: Flux_16 Start: 12478, Stop: 12684, Start Num: 7

Candidate Starts for Flux_16:

(Start: 7 @12478 has 206 MA's),

Gene: FlyCatcher_20 Start: 14171, Stop: 14332, Start Num: 7

Candidate Starts for FlyCatcher_20:

(Start: 7 @14171 has 206 MA's), (11, 14204), (13, 14210), (15, 14243),

Gene: Fred313_16 Start: 11876, Stop: 12052, Start Num: 7

Candidate Starts for Fred313_16:

(Start: 7 @11876 has 206 MA's), (13, 11915), (14, 11927),

Gene: Funston_16 Start: 12478, Stop: 12684, Start Num: 7

Candidate Starts for Funston_16:

(Start: 7 @12478 has 206 MA's),

Gene: Gadost_16 Start: 12482, Stop: 12688, Start Num: 7

Candidate Starts for Gadost_16:

(Start: 7 @12482 has 206 MA's),

Gene: Gilberta_17 Start: 13754, Stop: 13921, Start Num: 7

Candidate Starts for Gilberta_17:

(5, 13736), (Start: 7 @13754 has 206 MA's), (12, 13790), (16, 13838),

Gene: Giroux_16 Start: 12155, Stop: 12334, Start Num: 7

Candidate Starts for Giroux_16:

(Start: 7 @12155 has 206 MA's), (12, 12191), (13, 12194), (19, 12299),

Gene: Gollum_13 Start: 8707, Stop: 8913, Start Num: 7
Candidate Starts for Gollum_13:
(Start: 7 @8707 has 206 MA's), (17, 8800), (20, 8890),

Gene: Goose_16 Start: 12257, Stop: 12442, Start Num: 7
Candidate Starts for Goose_16:
(Start: 7 @12257 has 206 MA's),

Gene: HINdeR_16 Start: 13946, Stop: 14134, Start Num: 7
Candidate Starts for HINdeR_16:
(Start: 7 @13946 has 206 MA's),

Gene: HamSlice_15 Start: 12476, Stop: 12682, Start Num: 7
Candidate Starts for HamSlice_15:
(Start: 7 @12476 has 206 MA's),

Gene: Happiness_16 Start: 12484, Stop: 12690, Start Num: 7
Candidate Starts for Happiness_16:
(Start: 7 @12484 has 206 MA's),

Gene: Harlequin_13 Start: 8675, Stop: 8857, Start Num: 7
Candidate Starts for Harlequin_13:
(3, 8627), (Start: 7 @8675 has 206 MA's), (17, 8768),

Gene: Heathen_16 Start: 11956, Stop: 12135, Start Num: 7
Candidate Starts for Heathen_16:
(Start: 7 @11956 has 206 MA's), (12, 11992), (13, 11995), (19, 12100),

Gene: HelDan_16 Start: 12208, Stop: 12387, Start Num: 7
Candidate Starts for HelDan_16:
(Start: 7 @12208 has 206 MA's), (12, 12244), (13, 12247), (19, 12352),

Gene: Hiro_13 Start: 8675, Stop: 8857, Start Num: 7
Candidate Starts for Hiro_13:
(3, 8627), (Start: 7 @8675 has 206 MA's),

Gene: Holli_16 Start: 12268, Stop: 12474, Start Num: 7
Candidate Starts for Holli_16:
(Start: 7 @12268 has 206 MA's),

Gene: Houdini22_16 Start: 12482, Stop: 12688, Start Num: 7
Candidate Starts for Houdini22_16:
(Start: 7 @12482 has 206 MA's),

Gene: Hutc2_17 Start: 13760, Stop: 13927, Start Num: 7
Candidate Starts for Hutc2_17:
(5, 13742), (Start: 7 @13760 has 206 MA's), (12, 13796), (16, 13844),

Gene: Huxley_16 Start: 12542, Stop: 12748, Start Num: 7
Candidate Starts for Huxley_16:
(Start: 7 @12542 has 206 MA's),

Gene: ICleared_16 Start: 12476, Stop: 12682, Start Num: 7
Candidate Starts for ICleared_16:
(Start: 7 @12476 has 206 MA's),

Gene: Idleandcovert_16 Start: 12155, Stop: 12334, Start Num: 7
Candidate Starts for Idleandcovert_16:
(Start: 7 @12155 has 206 MA's), (12, 12191), (13, 12194), (19, 12299),

Gene: Insomnia_17 Start: 13809, Stop: 13976, Start Num: 7
Candidate Starts for Insomnia_17:
(5, 13791), (Start: 7 @13809 has 206 MA's), (12, 13845), (16, 13893),

Gene: Iracema64_16 Start: 12456, Stop: 12668, Start Num: 7
Candidate Starts for Iracema64_16:
(Start: 7 @12456 has 206 MA's),

Gene: Isca_16 Start: 12055, Stop: 12222, Start Num: 7
Candidate Starts for Isca_16:
(Start: 7 @12055 has 206 MA's), (13, 12094),

Gene: JF2_16 Start: 11811, Stop: 11987, Start Num: 7
Candidate Starts for JF2_16:
(Start: 7 @11811 has 206 MA's), (13, 11850), (14, 11862),

Gene: JF4_16 Start: 11811, Stop: 11987, Start Num: 7
Candidate Starts for JF4_16:
(Start: 7 @11811 has 206 MA's), (13, 11850), (14, 11862),

Gene: Jabith_17 Start: 13809, Stop: 13976, Start Num: 7
Candidate Starts for Jabith_17:
(5, 13791), (Start: 7 @13809 has 206 MA's), (12, 13845), (16, 13893),

Gene: Jaykayelowell_16 Start: 12474, Stop: 12680, Start Num: 7
Candidate Starts for Jaykayelowell_16:
(Start: 7 @12474 has 206 MA's),

Gene: Jester_13 Start: 8675, Stop: 8857, Start Num: 7
Candidate Starts for Jester_13:
(3, 8627), (Start: 7 @8675 has 206 MA's), (17, 8768),

Gene: JetBlade_16 Start: 12475, Stop: 12681, Start Num: 7
Candidate Starts for JetBlade_16:
(Start: 7 @12475 has 206 MA's),

Gene: JoongJeon_16 Start: 12478, Stop: 12684, Start Num: 7
Candidate Starts for JoongJeon_16:
(Start: 7 @12478 has 206 MA's),

Gene: Joselito_17 Start: 13757, Stop: 13924, Start Num: 7
Candidate Starts for Joselito_17:
(5, 13739), (Start: 7 @13757 has 206 MA's), (12, 13793), (16, 13841),

Gene: KFPoly_16 Start: 12478, Stop: 12684, Start Num: 7

Candidate Starts for KFPoly_16:
(Start: 7 @12478 has 206 MA's),

Gene: Kachowdy_16 Start: 12208, Stop: 12387, Start Num: 7
Candidate Starts for Kachowdy_16:
(Start: 7 @12208 has 206 MA's), (12, 12244), (13, 12247), (19, 12352),

Gene: Kampy_16 Start: 12476, Stop: 12682, Start Num: 7
Candidate Starts for Kampy_16:
(Start: 7 @12476 has 206 MA's),

Gene: Katalie136_16 Start: 12487, Stop: 12684, Start Num: 7
Candidate Starts for Katalie136_16:
(Start: 7 @12487 has 206 MA's),

Gene: Kingmustik0402_16 Start: 12470, Stop: 12676, Start Num: 7
Candidate Starts for Kingmustik0402_16:
(Start: 7 @12470 has 206 MA's),

Gene: KittenMittens_15 Start: 10361, Stop: 10540, Start Num: 7
Candidate Starts for KittenMittens_15:
(Start: 7 @10361 has 206 MA's),

Gene: Koan_15 Start: 12478, Stop: 12684, Start Num: 7
Candidate Starts for Koan_15:
(Start: 7 @12478 has 206 MA's),

Gene: Kratak_16 Start: 12473, Stop: 12679, Start Num: 7
Candidate Starts for Kratak_16:
(Start: 7 @12473 has 206 MA's),

Gene: Kremtemulon_16 Start: 12526, Stop: 12732, Start Num: 7
Candidate Starts for Kremtemulon_16:
(Start: 7 @12526 has 206 MA's),

Gene: Krishelle_13 Start: 8690, Stop: 8872, Start Num: 7
Candidate Starts for Krishelle_13:
(3, 8642), (Start: 7 @8690 has 206 MA's),

Gene: Kyee_16 Start: 12479, Stop: 12685, Start Num: 7
Candidate Starts for Kyee_16:
(Start: 7 @12479 has 206 MA's),

Gene: LHTSCC_16 Start: 12456, Stop: 12668, Start Num: 7
Candidate Starts for LHTSCC_16:
(Start: 7 @12456 has 206 MA's),

Gene: LappelDuVide_16 Start: 12475, Stop: 12681, Start Num: 7
Candidate Starts for LappelDuVide_16:
(Start: 7 @12475 has 206 MA's),

Gene: Lemur_16 Start: 12475, Stop: 12681, Start Num: 7
Candidate Starts for Lemur_16:

(Start: 7 @12475 has 206 MA's),

Gene: LeoAvram_16 Start: 12475, Stop: 12681, Start Num: 7

Candidate Starts for LeoAvram_16:

(Start: 7 @12475 has 206 MA's),

Gene: Lillie_13 Start: 8707, Stop: 8913, Start Num: 7

Candidate Starts for Lillie_13:

(Start: 7 @8707 has 206 MA's), (17, 8800), (20, 8890),

Gene: LittleB_16 Start: 12478, Stop: 12684, Start Num: 7

Candidate Starts for LittleB_16:

(Start: 7 @12478 has 206 MA's),

Gene: LochMonster_16 Start: 12453, Stop: 12659, Start Num: 7

Candidate Starts for LochMonster_16:

(Start: 7 @12453 has 206 MA's),

Gene: Lorenzo_16 Start: 12478, Stop: 12684, Start Num: 7

Candidate Starts for Lorenzo_16:

(Start: 7 @12478 has 206 MA's),

Gene: Lucivia_17 Start: 13806, Stop: 13973, Start Num: 7

Candidate Starts for Lucivia_17:

(5, 13788), (Start: 7 @13806 has 206 MA's), (12, 13842), (16, 13890),

Gene: Lucky10_7 Start: 5390, Stop: 5542, Start Num: 8

Candidate Starts for Lucky10_7:

(Start: 7 @5387 has 206 MA's), (Start: 8 @5390 has 3 MA's), (10, 5417),

Gene: Lunsford_17 Start: 12475, Stop: 12681, Start Num: 7

Candidate Starts for Lunsford_17:

(Start: 7 @12475 has 206 MA's),

Gene: MK4_16 Start: 12045, Stop: 12221, Start Num: 7

Candidate Starts for MK4_16:

(Start: 7 @12045 has 206 MA's), (13, 12084), (14, 12096),

Gene: MaCh_17 Start: 13754, Stop: 13921, Start Num: 7

Candidate Starts for MaCh_17:

(5, 13736), (Start: 7 @13754 has 206 MA's), (12, 13790), (16, 13838),

Gene: Mabel_17 Start: 13821, Stop: 13988, Start Num: 7

Candidate Starts for Mabel_17:

(5, 13803), (Start: 7 @13821 has 206 MA's), (12, 13857), (16, 13905),

Gene: Marchesa_16 Start: 12206, Stop: 12385, Start Num: 7

Candidate Starts for Marchesa_16:

(Start: 7 @12206 has 206 MA's), (12, 12242), (13, 12245), (19, 12350),

Gene: Maverick_16 Start: 12478, Stop: 12684, Start Num: 7

Candidate Starts for Maverick_16:

(Start: 7 @12478 has 206 MA's),

Gene: Maxo_16 Start: 12476, Stop: 12682, Start Num: 7
Candidate Starts for Maxo_16:
(Start: 7 @12476 has 206 MA's),

Gene: Mayonnaise_16 Start: 12478, Stop: 12684, Start Num: 7
Candidate Starts for Mayonnaise_16:
(Start: 7 @12478 has 206 MA's),

Gene: Mazhar510_16 Start: 12479, Stop: 12685, Start Num: 7
Candidate Starts for Mazhar510_16:
(Start: 7 @12479 has 206 MA's),

Gene: Medusa_16 Start: 12479, Stop: 12685, Start Num: 7
Candidate Starts for Medusa_16:
(Start: 7 @12479 has 206 MA's),

Gene: Melvin_16 Start: 12478, Stop: 12684, Start Num: 7
Candidate Starts for Melvin_16:
(Start: 7 @12478 has 206 MA's),

Gene: Millski_16 Start: 12481, Stop: 12687, Start Num: 7
Candidate Starts for Millski_16:
(Start: 7 @12481 has 206 MA's),

Gene: Morkie_7 Start: 5358, Stop: 5504, Start Num: 8
Candidate Starts for Morkie_7:
(Start: 8 @5358 has 3 MA's), (9, 5379),

Gene: Morpher26_16 Start: 12487, Stop: 12684, Start Num: 7
Candidate Starts for Morpher26_16:
(Start: 7 @12487 has 206 MA's),

Gene: Morrow_16 Start: 12481, Stop: 12687, Start Num: 7
Candidate Starts for Morrow_16:
(Start: 7 @12481 has 206 MA's),

Gene: Mulciber_17 Start: 13757, Stop: 13924, Start Num: 7
Candidate Starts for Mulciber_17:
(5, 13739), (Start: 7 @13757 has 206 MA's), (12, 13793), (16, 13841),

Gene: Munch_17 Start: 13757, Stop: 13924, Start Num: 7
Candidate Starts for Munch_17:
(5, 13739), (Start: 7 @13757 has 206 MA's), (12, 13793), (16, 13841),

Gene: Mundrea_16 Start: 12441, Stop: 12650, Start Num: 7
Candidate Starts for Mundrea_16:
(Start: 7 @12441 has 206 MA's),

Gene: Naiad_13 Start: 8707, Stop: 8913, Start Num: 7
Candidate Starts for Naiad_13:
(Start: 7 @8707 has 206 MA's), (17, 8800), (20, 8890),

Gene: Nancinator_13 Start: 8707, Stop: 8913, Start Num: 7
Candidate Starts for Nancinator_13:
(Start: 7 @8707 has 206 MA's), (17, 8800), (20, 8890),

Gene: Natosaleda_13 Start: 8707, Stop: 8913, Start Num: 7
Candidate Starts for Natosaleda_13:
(Start: 7 @8707 has 206 MA's), (17, 8800),

Gene: Nemo27_16 Start: 12477, Stop: 12683, Start Num: 7
Candidate Starts for Nemo27_16:
(Start: 7 @12477 has 206 MA's),

Gene: Noelle_16 Start: 12541, Stop: 12738, Start Num: 7
Candidate Starts for Noelle_16:
(Start: 7 @12541 has 206 MA's),

Gene: NotAPhaseMom_16 Start: 12482, Stop: 12688, Start Num: 7
Candidate Starts for NotAPhaseMom_16:
(Start: 7 @12482 has 206 MA's),

Gene: Nyxis_16 Start: 12421, Stop: 12627, Start Num: 7
Candidate Starts for Nyxis_16:
(Start: 7 @12421 has 206 MA's),

Gene: OKCentral2016_16 Start: 11957, Stop: 12142, Start Num: 7
Candidate Starts for OKCentral2016_16:
(Start: 7 @11957 has 206 MA's),

Gene: Obama12_16 Start: 12458, Stop: 12670, Start Num: 7
Candidate Starts for Obama12_16:
(Start: 7 @12458 has 206 MA's),

Gene: Ohfah_16 Start: 12475, Stop: 12681, Start Num: 7
Candidate Starts for Ohfah_16:
(Start: 7 @12475 has 206 MA's),

Gene: Orange_17 Start: 13757, Stop: 13924, Start Num: 7
Candidate Starts for Orange_17:
(5, 13739), (Start: 7 @13757 has 206 MA's), (12, 13793), (16, 13841),

Gene: PP_26 Start: 18359, Stop: 18544, Start Num: 7
Candidate Starts for PP_26:
(1, 18167), (2, 18194), (Start: 7 @18359 has 206 MA's), (13, 18398),

Gene: Palestino_16 Start: 12478, Stop: 12684, Start Num: 7
Candidate Starts for Palestino_16:
(Start: 7 @12478 has 206 MA's),

Gene: Panamaxus_17 Start: 12681, Stop: 12875, Start Num: 6
Candidate Starts for Panamaxus_17:
(Start: 6 @12681 has 2 MA's), (Start: 7 @12696 has 206 MA's),

Gene: Partridge_13 Start: 8734, Stop: 8940, Start Num: 7

Candidate Starts for Partridge_13:
(3, 8686), (Start: 7 @8734 has 206 MA's), (17, 8827),

Gene: PeaceMeal1_15 Start: 10362, Stop: 10541, Start Num: 7
Candidate Starts for PeaceMeal1_15:
(Start: 7 @10362 has 206 MA's),

Gene: Peaches_16 Start: 12477, Stop: 12683, Start Num: 7
Candidate Starts for Peaches_16:
(Start: 7 @12477 has 206 MA's),

Gene: Perplexer_16 Start: 12481, Stop: 12678, Start Num: 7
Candidate Starts for Perplexer_16:
(Start: 7 @12481 has 206 MA's),

Gene: PeterPeter_16 Start: 12478, Stop: 12684, Start Num: 7
Candidate Starts for PeterPeter_16:
(Start: 7 @12478 has 206 MA's),

Gene: Petersenfast_16 Start: 13760, Stop: 13927, Start Num: 7
Candidate Starts for Petersenfast_16:
(5, 13742), (Start: 7 @13760 has 206 MA's), (12, 13796), (16, 13844),

Gene: PetiteSangsue_16 Start: 12487, Stop: 12684, Start Num: 7
Candidate Starts for PetiteSangsue_16:
(Start: 7 @12487 has 206 MA's),

Gene: Phacado_16 Start: 12477, Stop: 12683, Start Num: 7
Candidate Starts for Phacado_16:
(Start: 7 @12477 has 206 MA's),

Gene: Phantastic_16 Start: 12115, Stop: 12300, Start Num: 7
Candidate Starts for Phantastic_16:
(Start: 7 @12115 has 206 MA's), (11, 12148), (18, 12229),

Gene: Phelipe_16 Start: 12478, Stop: 12684, Start Num: 7
Candidate Starts for Phelipe_16:
(Start: 7 @12478 has 206 MA's),

Gene: Phighter1804_16 Start: 12456, Stop: 12662, Start Num: 7
Candidate Starts for Phighter1804_16:
(Start: 7 @12456 has 206 MA's),

Gene: PhorbesPhlower_7 Start: 5358, Stop: 5504, Start Num: 8
Candidate Starts for PhorbesPhlower_7:
(Start: 8 @5358 has 3 MA's), (9, 5379),

Gene: Phrankenstein_13 Start: 8707, Stop: 8913, Start Num: 7
Candidate Starts for Phrankenstein_13:
(Start: 7 @8707 has 206 MA's), (17, 8800), (20, 8890),

Gene: Pipcraft_16 Start: 12478, Stop: 12684, Start Num: 7
Candidate Starts for Pipcraft_16:

(Start: 7 @12478 has 206 MA's),

Gene: Pistachio_17 Start: 11702, Stop: 11881, Start Num: 7

Candidate Starts for Pistachio_17:

(Start: 7 @11702 has 206 MA's), (12, 11738), (13, 11741), (19, 11846),

Gene: Polymorphads_16 Start: 12475, Stop: 12681, Start Num: 7

Candidate Starts for Polymorphads_16:

(Start: 7 @12475 has 206 MA's),

Gene: Poompha_15 Start: 10360, Stop: 10539, Start Num: 7

Candidate Starts for Poompha_15:

(Start: 7 @10360 has 206 MA's),

Gene: Pumbaa_16 Start: 12453, Stop: 12659, Start Num: 7

Candidate Starts for Pumbaa_16:

(Start: 7 @12453 has 206 MA's),

Gene: Puppy_17 Start: 11774, Stop: 11953, Start Num: 7

Candidate Starts for Puppy_17:

(Start: 7 @11774 has 206 MA's), (12, 11810), (13, 11813), (19, 11918),

Gene: RER2_6 Start: 5579, Stop: 5785, Start Num: 7

Candidate Starts for RER2_6:

(Start: 7 @5579 has 206 MA's), (17, 5672), (20, 5762),

Gene: Rasputin_13 Start: 8675, Stop: 8881, Start Num: 7

Candidate Starts for Rasputin_13:

(3, 8627), (Start: 7 @8675 has 206 MA's),

Gene: Relief_16 Start: 12476, Stop: 12682, Start Num: 7

Candidate Starts for Relief_16:

(Start: 7 @12476 has 206 MA's),

Gene: RexFury_13 Start: 8738, Stop: 8944, Start Num: 7

Candidate Starts for RexFury_13:

(Start: 7 @8738 has 206 MA's), (17, 8831), (20, 8921),

Gene: Rhodalysa_13 Start: 8707, Stop: 8913, Start Num: 7

Candidate Starts for Rhodalysa_13:

(Start: 7 @8707 has 206 MA's), (17, 8800), (20, 8890),

Gene: Rockstar_16 Start: 12051, Stop: 12227, Start Num: 7

Candidate Starts for Rockstar_16:

(Start: 7 @12051 has 206 MA's), (13, 12090),

Gene: Romney_16 Start: 12478, Stop: 12684, Start Num: 7

Candidate Starts for Romney_16:

(Start: 7 @12478 has 206 MA's),

Gene: Ruin_16 Start: 12474, Stop: 12680, Start Num: 7

Candidate Starts for Ruin_16:

(Start: 7 @12474 has 206 MA's),

Gene: Sabertooth_16 Start: 12475, Stop: 12681, Start Num: 7
Candidate Starts for Sabertooth_16:
(Start: 7 @12475 has 206 MA's),

Gene: Salz_17 Start: 13754, Stop: 13921, Start Num: 7
Candidate Starts for Salz_17:
(5, 13736), (Start: 7 @13754 has 206 MA's), (12, 13790), (16, 13838),

Gene: SaturnRing_16 Start: 12155, Stop: 12334, Start Num: 7
Candidate Starts for SaturnRing_16:
(Start: 7 @12155 has 206 MA's), (12, 12191), (13, 12194), (19, 12299),

Gene: Scout_16 Start: 11455, Stop: 11634, Start Num: 7
Candidate Starts for Scout_16:
(Start: 7 @11455 has 206 MA's), (12, 11491), (13, 11494), (19, 11599),

Gene: SenorClean_15 Start: 12478, Stop: 12684, Start Num: 7
Candidate Starts for SenorClean_15:
(Start: 7 @12478 has 206 MA's),

Gene: Severus_15 Start: 10360, Stop: 10539, Start Num: 7
Candidate Starts for Severus_15:
(Start: 7 @10360 has 206 MA's),

Gene: Shaka_16 Start: 12478, Stop: 12684, Start Num: 7
Candidate Starts for Shaka_16:
(Start: 7 @12478 has 206 MA's),

Gene: Sham4_17 Start: 13760, Stop: 13927, Start Num: 7
Candidate Starts for Sham4_17:
(5, 13742), (Start: 7 @13760 has 206 MA's), (12, 13796), (16, 13844),

Gene: Sheen_18 Start: 14229, Stop: 14390, Start Num: 7
Candidate Starts for Sheen_18:
(Start: 7 @14229 has 206 MA's), (11, 14262), (13, 14268), (15, 14301),

Gene: SheldonCooper_16 Start: 12457, Stop: 12669, Start Num: 7
Candidate Starts for SheldonCooper_16:
(Start: 7 @12457 has 206 MA's),

Gene: Shuman_13 Start: 8707, Stop: 8913, Start Num: 7
Candidate Starts for Shuman_13:
(Start: 7 @8707 has 206 MA's), (17, 8800),

Gene: Shygu2_16 Start: 12482, Stop: 12679, Start Num: 7
Candidate Starts for Shygu2_16:
(Start: 7 @12482 has 206 MA's),

Gene: Skipitt_16 Start: 12475, Stop: 12681, Start Num: 7
Candidate Starts for Skipitt_16:
(Start: 7 @12475 has 206 MA's),

Gene: Snape_17 Start: 13760, Stop: 13927, Start Num: 7
Candidate Starts for Snape_17:
(5, 13742), (Start: 7 @13760 has 206 MA's), (12, 13796), (16, 13844),

Gene: Sparxx_16 Start: 12475, Stop: 12681, Start Num: 7
Candidate Starts for Sparxx_16:
(Start: 7 @12475 has 206 MA's),

Gene: Spino_16 Start: 12478, Stop: 12684, Start Num: 7
Candidate Starts for Spino_16:
(Start: 7 @12478 has 206 MA's),

Gene: StCroix_13 Start: 8707, Stop: 8913, Start Num: 7
Candidate Starts for StCroix_13:
(Start: 7 @8707 has 206 MA's), (17, 8800), (20, 8890),

Gene: Stink_16 Start: 12447, Stop: 12641, Start Num: 7
Candidate Starts for Stink_16:
(Start: 7 @12447 has 206 MA's),

Gene: Swann_13 Start: 8707, Stop: 8913, Start Num: 7
Candidate Starts for Swann_13:
(Start: 7 @8707 has 206 MA's), (17, 8800), (20, 8890),

Gene: TNguyen7_16 Start: 12125, Stop: 12304, Start Num: 7
Candidate Starts for TNguyen7_16:
(Start: 7 @12125 has 206 MA's), (12, 12161), (13, 12164), (19, 12269),

Gene: TWAMP_13 Start: 8707, Stop: 8913, Start Num: 7
Candidate Starts for TWAMP_13:
(Start: 7 @8707 has 206 MA's), (17, 8800), (20, 8890),

Gene: Takoda_13 Start: 8667, Stop: 8873, Start Num: 7
Candidate Starts for Takoda_13:
(3, 8619), (Start: 7 @8667 has 206 MA's), (17, 8760),

Gene: Taquarus_16 Start: 12481, Stop: 12687, Start Num: 7
Candidate Starts for Taquarus_16:
(Start: 7 @12481 has 206 MA's),

Gene: Thanksgivukkah_16 Start: 12482, Stop: 12688, Start Num: 7
Candidate Starts for Thanksgivukkah_16:
(Start: 7 @12482 has 206 MA's),

Gene: Timothy_17 Start: 13757, Stop: 13924, Start Num: 7
Candidate Starts for Timothy_17:
(5, 13739), (Start: 7 @13757 has 206 MA's), (12, 13793), (16, 13841),

Gene: Timshel_17 Start: 14080, Stop: 14268, Start Num: 7
Candidate Starts for Timshel_17:
(Start: 7 @14080 has 206 MA's),

Gene: TinaFeyge_16 Start: 12475, Stop: 12681, Start Num: 7

Candidate Starts for TinaFeyge_16:
(Start: 7 @12475 has 206 MA's),

Gene: TinyTimmy_17 Start: 13800, Stop: 13967, Start Num: 7
Candidate Starts for TinyTimmy_17:
(5, 13782), (Start: 7 @13800 has 206 MA's), (12, 13836), (16, 13884),

Gene: TiroTheta9_16 Start: 12475, Stop: 12681, Start Num: 7
Candidate Starts for TiroTheta9_16:
(Start: 7 @12475 has 206 MA's),

Gene: Toro_19 Start: 14171, Stop: 14332, Start Num: 7
Candidate Starts for Toro_19:
(Start: 7 @14171 has 206 MA's), (11, 14204), (13, 14210), (15, 14243),

Gene: Trike_14 Start: 10362, Stop: 10547, Start Num: 7
Candidate Starts for Trike_14:
(Start: 7 @10362 has 206 MA's),

Gene: TroyPia_16 Start: 12478, Stop: 12684, Start Num: 7
Candidate Starts for TroyPia_16:
(Start: 7 @12478 has 206 MA's),

Gene: TygerBlood_16 Start: 12477, Stop: 12683, Start Num: 7
Candidate Starts for TygerBlood_16:
(Start: 7 @12477 has 206 MA's),

Gene: UhSalsa_13 Start: 8707, Stop: 8913, Start Num: 7
Candidate Starts for UhSalsa_13:
(Start: 7 @8707 has 206 MA's), (17, 8800), (20, 8890),

Gene: Ulysses_15 Start: 12199, Stop: 12405, Start Num: 7
Candidate Starts for Ulysses_15:
(Start: 7 @12199 has 206 MA's),

Gene: Veracruz_16 Start: 12681, Stop: 12875, Start Num: 6
Candidate Starts for Veracruz_16:
(Start: 6 @12681 has 2 MA's), (Start: 7 @12696 has 206 MA's),

Gene: Wander_16 Start: 12478, Stop: 12684, Start Num: 7
Candidate Starts for Wander_16:
(Start: 7 @12478 has 206 MA's),

Gene: Wilbur_16 Start: 12478, Stop: 12684, Start Num: 7
Candidate Starts for Wilbur_16:
(Start: 7 @12478 has 206 MA's),

Gene: Wile_16 Start: 12497, Stop: 12694, Start Num: 7
Candidate Starts for Wile_16:
(Start: 7 @12497 has 206 MA's),

Gene: Wizard007_16 Start: 12480, Stop: 12686, Start Num: 7
Candidate Starts for Wizard007_16:

(Start: 7 @12480 has 206 MA's),

Gene: Xena_16 Start: 12484, Stop: 12681, Start Num: 7

Candidate Starts for Xena_16:

(Start: 7 @12484 has 206 MA's),

Gene: YoSam321_16 Start: 12475, Stop: 12681, Start Num: 7

Candidate Starts for YoSam321_16:

(Start: 7 @12475 has 206 MA's),

Gene: Yogi_13 Start: 8675, Stop: 8881, Start Num: 7

Candidate Starts for Yogi_13:

(3, 8627), (Start: 7 @8675 has 206 MA's),

Gene: Yoncess_13 Start: 8675, Stop: 8881, Start Num: 7

Candidate Starts for Yoncess_13:

(3, 8627), (Start: 7 @8675 has 206 MA's),