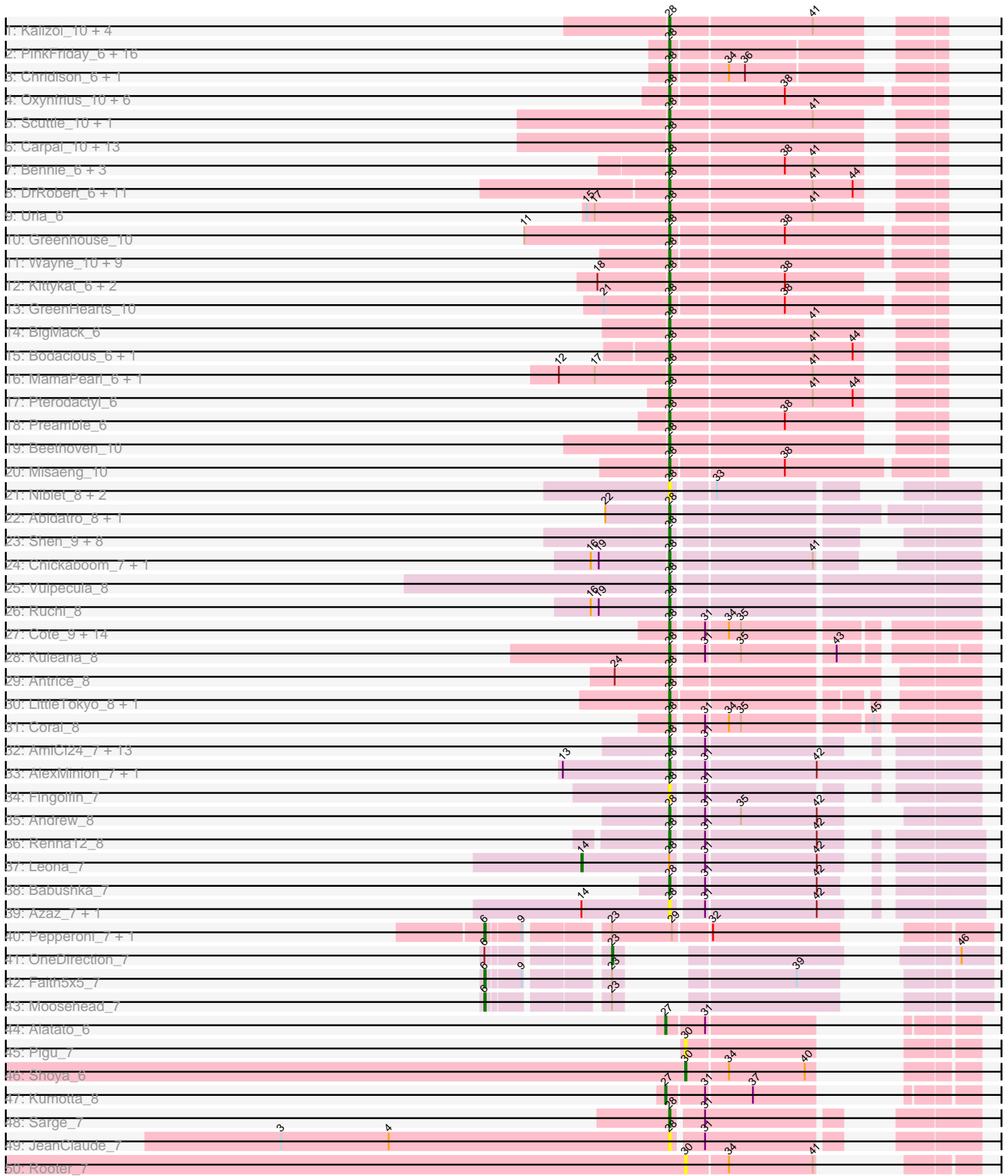


Pham 296253



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 296253 Report

This analysis was run 04/25/26 on database version 644.

Pham number 296253 has 212 members, 32 are drafts.

Phages represented in each track:

- Track 1 : Kalizoi_10, Dino_10, Wawa_10, Korra_10, Zorro_10
- Track 2 : PinkFriday_6, Zhuangyuan_9, Maria1952_6, Riovina_6, Cygnet_8, Vulture_6, OMalley_6, KingBob_6, Pumancara_6, Herb_6, HunterDalle_6, Eunoia_6, Sergei_6, Aledel_6, Supakev_6, Daiboju_6, Temper16_6
- Track 3 : Chridison_6, AustinPowers_6
- Track 4 : Oxynfrius_10, Lakshmi_10, Albanese_10, Nubia_10, RcigaStruga_10, Huntingdon_10, Joann_10
- Track 5 : Scuttle_10, BrotherBLo_10
- Track 6 : Carpal_10, RAP15_10, Potatoes_10, Cholula_10, Fluke_10, Glenn_10, Jumboset_10, Savage2526_10, Rozby_10, TattModd_10, MrGloopy_10, Riverdale_10, Immaculata_10, MeganNoll_10
- Track 7 : Bennie_6, HeadNerd_6, Moki_6, Huckleberry_6
- Track 8 : DrRobert_6, Lennox_6, Christian_6, Makoto_6, Lucy_6, PitaDog_6, WonderBoy_6, CristinaYang_6, LilStuart_6, Lasagna_6, OurGirlNessie_6, Nancia_6
- Track 9 : Urla_6
- Track 10 : Greenhouse_10
- Track 11 : Wayne_10, Vallejo_10, Suppi_10, Litotes_10, PartyCup_10, MrBoss_10, Canowicakte_10, CallieOMalley_10, AppleCider_10, Graynor_10
- Track 12 : Kittykat_6, Gisselle_6, DreamTeam_6
- Track 13 : GreenHearts_10
- Track 14 : BigMack_6
- Track 15 : Bodacious_6, ChewChew_6
- Track 16 : MamaPearl_6, EstebanJulior_6
- Track 17 : Pterodactyl_6
- Track 18 : Preamble_6
- Track 19 : Beethoven_10
- Track 20 : Misaeng_10
- Track 21 : Niblet_8, Chicken_8, Zixiang_8
- Track 22 : Abidatro_8, Galaxy_8
- Track 23 : Shen_9, Amanises_9, Pelletreau_9, Orcanus_8, Toad24_9, KendraB23_9, Gravel_9, Eesa_8, Westrich_9
- Track 24 : Chickaboom_7, WileyE_7
- Track 25 : Vulpecula_8
- Track 26 : Ruchi_8
- Track 27 : Cote_9, Amelia_9, Daob_9, OtsoOtso_8, Jerole_9, Polka_8, Lunar_9, Melons_9, Pineda_9, Bedetta_9, Bibble12_9, PhirstandPhine_9, Kepler_8, Colusalem_8, HannahPhantana_9

- Track 28 : Kuleana_8
- Track 29 : Antrice_8
- Track 30 : LittleTokyo_8, TaylorSipht_8
- Track 31 : Coral_8
- Track 32 : AmiCi24_7, Oppalora_7, DanHam62_7, Camara_7, PhluffyCoco_7, HamCheese_7, Glotell_7, Amphitrite_7, Juno112_7, KHumphrey_7, Laphuphu24k_7, AdoptaAdorbs_7, RedFox_7, Atlantica_7
- Track 33 : AlexMinion_7, StuartMinion_7
- Track 34 : Fingolfin_7
- Track 35 : Andrew_8
- Track 36 : Renna12_8
- Track 37 : Leona_7
- Track 38 : Babushka_7
- Track 39 : Azaz_7, Rattail_7
- Track 40 : Pepperoni_7, Lton_7
- Track 41 : OneDirection_7
- Track 42 : Faith5x5_7
- Track 43 : Moosehead_7
- Track 44 : Alatato_6
- Track 45 : Pigu_7
- Track 46 : Shoya_6
- Track 47 : Kumotta_8
- Track 48 : Sarge_7
- Track 49 : JeanClaude_7
- Track 50 : Rooter_7
- Track 51 : Carcharodon_7, Xerxes_7, Bosection6_7, Parmesanjohn_7, Duplicity_7, Andies_7, Pipsqueaks_7, Philonius_7, Fulbright_7, Xeno_7, Gex_7, Tortoise12_7, Schnauzer_7, Silvafighter_7, Journey_7, Tapioca_7, EGUnicorn_7, Magsby_7, Aggie_7, Charlie_7, Silvy_7, Chewbacca_7, Smurph_7, Phloss_7
- Track 52 : SpongeBob_7, Jamie19_7, PhancyPhin_7, Hanako_7, Spinach_7, Phrann_7, Impisi_7, Raymond7_7, Shweta_7, Redi_7, ShrimpFriedEgg_7, Panchino_7, Rebel_7, BabeRuth_7, Nenae_7, Purgamenstris_7, SkinnyPete_7
- Track 53 : Cubone_6, Snekmaggedon_7
- Track 54 : Melville_7, Scitech_7, Tessdabest_6
- Track 55 : MichelleMyBell_7
- Track 56 : Rubeelu_7, Butters_7
- Track 57 : Kevin1_7
- Track 58 : Gudmit_8

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

The start number called the most often in the published annotations is 28, it was called in 125 of the 180 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abidatro_8, AdoptaAdorbs_7, Albanese_10, Aledel_6, AlexMinion_7, Amanises_9, Amelia_9, AmiCi24_7, Amphitrite_7, Andrew_8, Antrice_8, AppleCider_10, Atlantica_7, AustinPowers_6, Azaz_7, Babushka_7, Bedetta_9, Beethoven_10, Bennie_6, Bibble12_9, BigMack_6, Bodacious_6, BrotherBLo_10, CallieOMalley_10, Camara_7, Canowicakte_10, Carpal_10, ChewChew_6, Chickaboom_7, Chicken_8,

Cholula_10, Chridison_6, Christian_6, Colusalem_8, Coral_8, Cote_9, CristinaYang_6, Cygnet_8, Daiboju_6, DanHam62_7, Daob_9, Dino_10, DrRobert_6, DreamTeam_6, Eesa_8, EstebanJulior_6, Eunoia_6, Fingolfin_7, Fluke_10, Galaxy_8, Gisselle_6, Glenn_10, Glotell_7, Gravel_9, Graynor_10, GreenHearts_10, Greenhouse_10, HamCheese_7, HannahPhantana_9, HeadNerd_6, Herb_6, Huckleberry_6, HunterDalle_6, Huntingdon_10, Immaculata_10, JeanClaude_7, Jerole_9, Joann_10, Jumboset_10, Juno112_7, KHumphrey_7, Kalizoi_10, KendraB23_9, Kepler_8, KingBob_6, Kittykat_6, Korra_10, Kuleana_8, Lakshmi_10, Laphuphu24k_7, Lasagna_6, Lennox_6, LilStuart_6, Litotes_10, LittleTokyo_8, Lucy_6, Lunar_9, Makoto_6, MamaPearl_6, Maria1952_6, MeganNoll_10, Melons_9, Misaeng_10, Moki_6, MrBoss_10, MrGloopy_10, Nancia_6, Niblet_8, Nubia_10, OMalley_6, Oppalora_7, Orcanus_8, OtsoOtso_8, OurGirlNessie_6, Oxyfnrius_10, PartyCup_10, Pelletreau_9, PhirstandPhine_9, PhluffyCoco_7, Pineda_9, PinkFriday_6, PitaDog_6, Polka_8, Potatoes_10, Preamble_6, Pterodactyl_6, Pumancara_6, RAP15_10, Rattail_7, RcigaStruga_10, RedFox_7, Renna12_8, Rivovina_6, Riverdale_10, Rozby_10, Ruchi_8, Sarge_7, Savage2526_10, Scuttle_10, Sergei_6, Shen_9, StuartMinion_7, Supakev_6, Suppi_10, TattModd_10, TaylorSipt_8, Temper16_6, Toad24_9, Urla_6, Vallejo_10, Vulpecula_8, Vulture_6, Wawa_10, Wayne_10, Westrich_9, WileyE_7, WonderBoy_6, Zhuangyuan_9, Zixiang_8, Zorro_10,

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

- Leona_7,

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

- Aggie_7, Alatato_6, Andies_7, BabeRuth_7, Bosection6_7, Butters_7, Carcharodon_7, Charlie_7, Chewbacca_7, Cubone_6, Duplicity_7, EGUunicorn_7, Faith5x5_7, Fulbright_7, Gex_7, Gudmit_8, Hanako_7, Impisi_7, Jamie19_7, Journey_7, Kevin1_7, Kumotta_8, Lton_7, Magsby_7, Melville_7, MichelleMyBell_7, Moosehead_7, Nенаe_7, OneDirection_7, Panchino_7, Parmesanjohn_7, Pepperoni_7, PhancyPhin_7, Philonius_7, Phloss_7, Phrann_7, Pigu_7, Pipsqueaks_7, Purgamenstris_7, Raymond7_7, Rebel_7, Redi_7, Rooter_7, Rubeelu_7, Schnauzer_7, Scitech_7, Shoya_6, ShrimpFriedEgg_7, Shweta_7, Silvafighter_7, Silvy_7, SkinnyPete_7, Smurph_7, Snekmaggon_7, Spinach_7, SpongeBob_7, Tapioca_7, Tessdabest_6, Tortoise12_7, Xeno_7, Xerxes_7,

Summary by start number:

Start 6:

- Found in 5 of 212 (2.4%) of genes in pham
- Manual Annotations of this start: 3 of 180
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Faith5x5_7 (CZ6), Lton_7 (CZ), Moosehead_7 (CZ6), Pepperoni_7 (CZ),

Start 14:

- Found in 3 of 212 (1.4%) of genes in pham
- Manual Annotations of this start: 1 of 180
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Leona_7 (AS3),

Start 15:

- Found in 50 of 212 (23.6%) of genes in pham

- Manual Annotations of this start: 43 of 180
- Called 88.0% of time when present
- Phage (with cluster) where this start called: Aggie_7 (N), Andies_7 (N), BabeRuth_7 (N), Bosection6_7 (N), Butters_7 (N), Carcharodon_7 (N), Charlie_7 (N), Chewbacca_7 (N), Duplicity_7 (N), EGUunicorn_7 (N), Fulbright_7 (N), Gex_7 (N), Hanako_7 (N), Impisi_7 (N), Jamie19_7 (N), Journey_7 (N), Kevin1_7 (N), Magsby_7 (N), Nenae_7 (N), Panchino_7 (N), Parmesanjohn_7 (N), PhancyPhin_7 (N), Philonius_7 (N), Phloss_7 (N), Phrann_7 (N), Pipsqueaks_7 (N), Purgamenstris_7 (N), Raymond7_7 (N), Rebel_7 (N), Redi_7 (N), Rubeelu_7 (N), Schnauzer_7 (N), ShrimpFriedEgg_7 (N), Shweta_7 (N), Silvafighter_7 (N), Silvy_7 (N), SkinnyPete_7 (N), Smurph_7 (N), Spinach_7 (N), SpongeBob_7 (N), Tapioca_7 (N), Tortoise12_7 (N), Xeno_7 (N), Xerxes_7 (N),

Start 20:

- Found in 1 of 212 (0.5%) of genes in pham
- Manual Annotations of this start: 1 of 180
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MichelleMyBell_7 (N),

Start 23:

- Found in 6 of 212 (2.8%) of genes in pham
- Manual Annotations of this start: 2 of 180
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Gudmit_8 (singleton), OneDirection_7 (CZ6),

Start 27:

- Found in 2 of 212 (0.9%) of genes in pham
- Manual Annotations of this start: 2 of 180
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alatato_6 (FB), Kumotta_8 (FB),

Start 28:

- Found in 151 of 212 (71.2%) of genes in pham
- Manual Annotations of this start: 125 of 180
- Called 99.3% of time when present
- Phage (with cluster) where this start called: Abidatro_8 (AS1), AdoptaAdorbs_7 (AS3), Albanese_10 (AK), Aledel_6 (AK), AlexMinion_7 (AS3), Amanises_9 (AS1), Amelia_9 (AS2), AmiCi24_7 (AS3), Amphitrite_7 (AS3), Andrew_8 (AS3), Antrice_8 (AS2), AppleCider_10 (AK), Atlantica_7 (AS3), AustinPowers_6 (AK), Azaz_7 (AS3), Babushka_7 (AS3), Bedetta_9 (AS2), Beethoven_10 (AK), Bennie_6 (AK), Bibble12_9 (AS2), BigMack_6 (AK), Bodacious_6 (AK), BrotherBLo_10 (AK), CallieOMalley_10 (AK), Camara_7 (AS3), Canowicakte_10 (AK), Carpal_10 (AK), ChewChew_6 (AK), Chickaboom_7 (AS1), Chicken_8 (AS1), Cholula_10 (AK), Chrison_6 (AK), Christian_6 (AK), Colusalem_8 (AS2), Coral_8 (AS2), Cote_9 (AS2), CristinaYang_6 (AK), Cygnet_8 (AS2), Daiboju_6 (AK), DanHam62_7 (AS3), Daob_9 (AS2), Dino_10 (AK), DrRobert_6 (AK), DreamTeam_6 (AK), Eesa_8 (AS1), EstebanJulior_6 (AK), Eunoia_6 (AK), Fingolfin_7 (AS3), Fluke_10 (AK), Galaxy_8 (AS1), Gisselle_6 (AK), Glenn_10 (AK), Glotell_7 (AS3), Gravel_9 (AS1), Graynor_10 (AK), GreenHearts_10 (AK), Greenhouse_10 (AK), HamCheese_7 (AS3), HannahPhantana_9 (AS2), HeadNerd_6 (AK), Herb_6 (AK), Huckleberry_6 (AK), HunterDalle_6 (AK), Huntingdon_10 (AK), Immaculata_10 (AK), JeanClaude_7 (FB), Jerole_9 (AS2), Joann_10 (AK), Jumboset_10 (AK), Juno112_7 (AS3), KHumphrey_7

(AS3), Kalizoi_10 (AK), KendraB23_9 (AS1), Kepler_8 (AS2), KingBob_6 (AK), Kittykat_6 (AK), Korra_10 (AK), Kuleana_8 (AS2), Lakshmi_10 (AK), Laphuphu24k_7 (AS3), Lasagna_6 (AK), Lennox_6 (AK), LilStuart_6 (AK), Litotes_10 (AK), LittleTokyo_8 (AS2), Lucy_6 (AK), Lunar_9 (AS2), Makoto_6 (AK), MamaPearl_6 (AK), Maria1952_6 (AK), MeganNoll_10 (AK), Melons_9 (AS2), Misaeng_10 (AK), Moki_6 (AK), MrBoss_10 (AK), MrGloopy_10 (AK), Nancia_6 (AK), Niblet_8 (AS1), Nubia_10 (AK), OMalley_6 (AK), Oppalora_7 (AS3), Orcanus_8 (AS1), OtsoOtso_8 (AS2), OurGirlNessie_6 (AK), Oxynfrius_10 (AK), PartyCup_10 (AK), Pelletreau_9 (AS1), PhirstandPhine_9 (AS2), PhluffyCoco_7 (AS3), Pineda_9 (AS2), PinkFriday_6 (AK), PitaDog_6 (AK), Polka_8 (AS2), Potatoes_10 (AK), Preamble_6 (AK), Pterodactyl_6 (AK), Pumancara_6 (AK), RAP15_10 (AK), Rattail_7 (AS3), RcigaStruga_10 (AK), RedFox_7 (AS3), Renna12_8 (AS3), Riovina_6 (AK), Riverdale_10 (AK), Rozby_10 (AK), Ruchi_8 (AS1), Sarge_7 (FB), Savage2526_10 (AK), Scuttle_10 (AK), Sergei_6 (AK), Shen_9 (AS1), StuartMinion_7 (AS3), Supakev_6 (AK), Suppi_10 (AK), TattModd_10 (AK), TaylorSipht_8 (AS1), Temper16_6 (AK), Toad24_9 (AS1), Urla_6 (AK), Vallejo_10 (AK), Vulpecula_8 (AS1), Vulture_6 (AK), Wawa_10 (AK), Wayne_10 (AK), Westrich_9 (AS1), WileyE_7 (AS1), WonderBoy_6 (AK), Zhuangyuan_9 (AS2), Zixiang_8 (AS1), Zorro_10 (AK),

Start 30:

- Found in 53 of 212 (25.0%) of genes in pham
- Manual Annotations of this start: 3 of 180
- Called 15.1% of time when present
- Phage (with cluster) where this start called: Cubone_6 (N), Melville_7 (N), Pigu_7 (FB), Rooter_7 (FB), Scitech_7 (N), Shoya_6 (FB), Snekmaggedon_7 (N), Tessdabest_6 (N),

Summary by clusters:

There are 9 clusters represented in this pham: AS3, AS2, AS1, AK, CZ6, singleton, N, CZ, FB,

Info for manual annotations of cluster AK:

- Start number 28 was manually annotated 84 times for cluster AK.

Info for manual annotations of cluster AS1:

- Start number 28 was manually annotated 10 times for cluster AS1.

Info for manual annotations of cluster AS2:

- Start number 28 was manually annotated 17 times for cluster AS2.

Info for manual annotations of cluster AS3:

- Start number 14 was manually annotated 1 time for cluster AS3.
- Start number 28 was manually annotated 13 times for cluster AS3.

Info for manual annotations of cluster CZ:

- Start number 6 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ6:

- Start number 6 was manually annotated 2 times for cluster CZ6.
- Start number 23 was manually annotated 1 time for cluster CZ6.

Info for manual annotations of cluster FB:

- Start number 27 was manually annotated 2 times for cluster FB.
- Start number 28 was manually annotated 1 time for cluster FB.
- Start number 30 was manually annotated 1 time for cluster FB.

Info for manual annotations of cluster N:

- Start number 15 was manually annotated 43 times for cluster N.
- Start number 20 was manually annotated 1 time for cluster N.
- Start number 30 was manually annotated 2 times for cluster N.

Gene Information:

Gene: Abidatro_8 Start: 6875, Stop: 7084, Start Num: 28

Candidate Starts for Abidatro_8:

(22, 6830), (Start: 28 @6875 has 125 MA's),

Gene: AdoptaAdorbs_7 Start: 6510, Stop: 6692, Start Num: 28

Candidate Starts for AdoptaAdorbs_7:

(Start: 28 @6510 has 125 MA's), (31, 6531),

Gene: Aggie_7 Start: 5730, Stop: 5963, Start Num: 15

Candidate Starts for Aggie_7:

(Start: 15 @5730 has 43 MA's), (Start: 30 @5799 has 3 MA's), (31, 5814),

Gene: Alatato_6 Start: 5818, Stop: 5973, Start Num: 27

Candidate Starts for Alatato_6:

(Start: 27 @5818 has 2 MA's), (31, 5845),

Gene: Albanese_10 Start: 9061, Stop: 9255, Start Num: 28

Candidate Starts for Albanese_10:

(Start: 28 @9061 has 125 MA's), (38, 9142),

Gene: Aledel_6 Start: 6159, Stop: 6332, Start Num: 28

Candidate Starts for Aledel_6:

(Start: 28 @6159 has 125 MA's),

Gene: AlexMinion_7 Start: 6509, Stop: 6718, Start Num: 28

Candidate Starts for AlexMinion_7:

(13, 6431), (Start: 28 @6509 has 125 MA's), (31, 6530), (42, 6611),

Gene: Amanises_9 Start: 7098, Stop: 7280, Start Num: 28

Candidate Starts for Amanises_9:

(Start: 28 @7098 has 125 MA's),

Gene: Amelia_9 Start: 7077, Stop: 7280, Start Num: 28

Candidate Starts for Amelia_9:

(Start: 28 @7077 has 125 MA's), (31, 7098), (34, 7113), (35, 7122),

Gene: AmiCi24_7 Start: 6510, Stop: 6692, Start Num: 28

Candidate Starts for AmiCi24_7:

(Start: 28 @6510 has 125 MA's), (31, 6531),

Gene: Amphitrite_7 Start: 6508, Stop: 6690, Start Num: 28

Candidate Starts for Amphitrite_7:

(Start: 28 @6508 has 125 MA's), (31, 6529),

Gene: Andies_7 Start: 5730, Stop: 5963, Start Num: 15

Candidate Starts for Andies_7:

(Start: 15 @5730 has 43 MA's), (Start: 30 @5799 has 3 MA's), (31, 5814),

Gene: Andrew_8 Start: 6895, Stop: 7071, Start Num: 28

Candidate Starts for Andrew_8:

(Start: 28 @6895 has 125 MA's), (31, 6916), (35, 6940), (42, 6997),

Gene: Antrice_8 Start: 6824, Stop: 7024, Start Num: 28

Candidate Starts for Antrice_8:

(24, 6785), (Start: 28 @6824 has 125 MA's),

Gene: AppleCider_10 Start: 9015, Stop: 9209, Start Num: 28

Candidate Starts for AppleCider_10:

(Start: 28 @9015 has 125 MA's),

Gene: Atlantica_7 Start: 6510, Stop: 6692, Start Num: 28

Candidate Starts for Atlantica_7:

(Start: 28 @6510 has 125 MA's), (31, 6531),

Gene: AustinPowers_6 Start: 6160, Stop: 6333, Start Num: 28

Candidate Starts for AustinPowers_6:

(Start: 28 @6160 has 125 MA's), (34, 6199), (36, 6211),

Gene: Azaz_7 Start: 6552, Stop: 6743, Start Num: 28

Candidate Starts for Azaz_7:

(Start: 14 @6489 has 1 MA's), (Start: 28 @6552 has 125 MA's), (31, 6573), (42, 6654),

Gene: BabeRuth_7 Start: 5753, Stop: 6004, Start Num: 15

Candidate Starts for BabeRuth_7:

(1, 5351), (2, 5453), (Start: 15 @5753 has 43 MA's), (Start: 30 @5822 has 3 MA's), (31, 5837),

Gene: Babushka_7 Start: 6552, Stop: 6740, Start Num: 28

Candidate Starts for Babushka_7:

(Start: 28 @6552 has 125 MA's), (31, 6573), (42, 6654),

Gene: Bedetta_9 Start: 7077, Stop: 7280, Start Num: 28

Candidate Starts for Bedetta_9:

(Start: 28 @7077 has 125 MA's), (31, 7098), (34, 7113), (35, 7122),

Gene: Beethoven_10 Start: 8995, Stop: 9174, Start Num: 28

Candidate Starts for Beethoven_10:

(Start: 28 @8995 has 125 MA's),

Gene: Bennie_6 Start: 6140, Stop: 6319, Start Num: 28

Candidate Starts for Bennie_6:

(Start: 28 @6140 has 125 MA's), (38, 6224), (41, 6245),

Gene: Bible12_9 Start: 7080, Stop: 7283, Start Num: 28

Candidate Starts for Bibble12_9:
(Start: 28 @7080 has 125 MA's), (31, 7101), (34, 7116), (35, 7125),

Gene: BigMack_6 Start: 6140, Stop: 6319, Start Num: 28
Candidate Starts for BigMack_6:
(Start: 28 @6140 has 125 MA's), (41, 6245),

Gene: Bodacious_6 Start: 6138, Stop: 6317, Start Num: 28
Candidate Starts for Bodacious_6:
(Start: 28 @6138 has 125 MA's), (41, 6243), (44, 6273),

Gene: Bosection6_7 Start: 5730, Stop: 5963, Start Num: 15
Candidate Starts for Bosection6_7:
(Start: 15 @5730 has 43 MA's), (Start: 30 @5799 has 3 MA's), (31, 5814),

Gene: BrotherBLo_10 Start: 9002, Stop: 9181, Start Num: 28
Candidate Starts for BrotherBLo_10:
(Start: 28 @9002 has 125 MA's), (41, 9107),

Gene: Butters_7 Start: 5729, Stop: 5977, Start Num: 15
Candidate Starts for Butters_7:
(5, 5600), (7, 5675), (8, 5678), (Start: 15 @5729 has 43 MA's), (Start: 30 @5798 has 3 MA's), (31, 5813), (36, 5840),

Gene: CallieOMalley_10 Start: 9015, Stop: 9209, Start Num: 28
Candidate Starts for CallieOMalley_10:
(Start: 28 @9015 has 125 MA's),

Gene: Camara_7 Start: 6511, Stop: 6693, Start Num: 28
Candidate Starts for Camara_7:
(Start: 28 @6511 has 125 MA's), (31, 6532),

Gene: Canowicakte_10 Start: 9050, Stop: 9244, Start Num: 28
Candidate Starts for Canowicakte_10:
(Start: 28 @9050 has 125 MA's),

Gene: Carcharodon_7 Start: 5730, Stop: 5963, Start Num: 15
Candidate Starts for Carcharodon_7:
(Start: 15 @5730 has 43 MA's), (Start: 30 @5799 has 3 MA's), (31, 5814),

Gene: Carpal_10 Start: 9002, Stop: 9181, Start Num: 28
Candidate Starts for Carpal_10:
(Start: 28 @9002 has 125 MA's),

Gene: Charlie_7 Start: 5730, Stop: 5963, Start Num: 15
Candidate Starts for Charlie_7:
(Start: 15 @5730 has 43 MA's), (Start: 30 @5799 has 3 MA's), (31, 5814),

Gene: ChewChew_6 Start: 6137, Stop: 6316, Start Num: 28
Candidate Starts for ChewChew_6:
(Start: 28 @6137 has 125 MA's), (41, 6242), (44, 6272),

Gene: Chewbacca_7 Start: 5730, Stop: 5963, Start Num: 15

Candidate Starts for Chewbacca_7:
(Start: 15 @5730 has 43 MA's), (Start: 30 @5799 has 3 MA's), (31, 5814),

Gene: Chickaboom_7 Start: 6580, Stop: 6765, Start Num: 28
Candidate Starts for Chickaboom_7:
(16, 6526), (19, 6532), (Start: 28 @6580 has 125 MA's), (41, 6679),

Gene: Chicken_8 Start: 6886, Stop: 7068, Start Num: 28
Candidate Starts for Chicken_8:
(Start: 28 @6886 has 125 MA's), (33, 6913),

Gene: Cholula_10 Start: 9047, Stop: 9226, Start Num: 28
Candidate Starts for Cholula_10:
(Start: 28 @9047 has 125 MA's),

Gene: Chridison_6 Start: 6160, Stop: 6333, Start Num: 28
Candidate Starts for Chridison_6:
(Start: 28 @6160 has 125 MA's), (34, 6199), (36, 6211),

Gene: Christian_6 Start: 6138, Stop: 6317, Start Num: 28
Candidate Starts for Christian_6:
(Start: 28 @6138 has 125 MA's), (41, 6243), (44, 6273),

Gene: Colusalem_8 Start: 6916, Stop: 7119, Start Num: 28
Candidate Starts for Colusalem_8:
(Start: 28 @6916 has 125 MA's), (31, 6937), (34, 6952), (35, 6961),

Gene: Coral_8 Start: 6916, Stop: 7119, Start Num: 28
Candidate Starts for Coral_8:
(Start: 28 @6916 has 125 MA's), (31, 6937), (34, 6952), (35, 6961), (45, 7051),

Gene: Cote_9 Start: 7077, Stop: 7280, Start Num: 28
Candidate Starts for Cote_9:
(Start: 28 @7077 has 125 MA's), (31, 7098), (34, 7113), (35, 7122),

Gene: CristinaYang_6 Start: 6138, Stop: 6317, Start Num: 28
Candidate Starts for CristinaYang_6:
(Start: 28 @6138 has 125 MA's), (41, 6243), (44, 6273),

Gene: Cubone_6 Start: 5805, Stop: 5987, Start Num: 30
Candidate Starts for Cubone_6:
(1, 5334), (2, 5436), (Start: 15 @5736 has 43 MA's), (Start: 30 @5805 has 3 MA's), (31, 5820),

Gene: Cygnet_8 Start: 6857, Stop: 7063, Start Num: 28
Candidate Starts for Cygnet_8:
(Start: 28 @6857 has 125 MA's),

Gene: Daiboju_6 Start: 6161, Stop: 6334, Start Num: 28
Candidate Starts for Daiboju_6:
(Start: 28 @6161 has 125 MA's),

Gene: DanHam62_7 Start: 6510, Stop: 6692, Start Num: 28
Candidate Starts for DanHam62_7:

(Start: 28 @6510 has 125 MA's), (31, 6531),

Gene: Daob_9 Start: 7080, Stop: 7283, Start Num: 28

Candidate Starts for Daob_9:

(Start: 28 @7080 has 125 MA's), (31, 7101), (34, 7116), (35, 7125),

Gene: Dino_10 Start: 9001, Stop: 9180, Start Num: 28

Candidate Starts for Dino_10:

(Start: 28 @9001 has 125 MA's), (41, 9106),

Gene: DrRobert_6 Start: 6138, Stop: 6317, Start Num: 28

Candidate Starts for DrRobert_6:

(Start: 28 @6138 has 125 MA's), (41, 6243), (44, 6273),

Gene: DreamTeam_6 Start: 6184, Stop: 6363, Start Num: 28

Candidate Starts for DreamTeam_6:

(18, 6133), (Start: 28 @6184 has 125 MA's), (38, 6268),

Gene: Duplicity_7 Start: 5730, Stop: 5963, Start Num: 15

Candidate Starts for Duplicity_7:

(Start: 15 @5730 has 43 MA's), (Start: 30 @5799 has 3 MA's), (31, 5814),

Gene: EGUunicorn_7 Start: 5730, Stop: 5963, Start Num: 15

Candidate Starts for EGUunicorn_7:

(Start: 15 @5730 has 43 MA's), (Start: 30 @5799 has 3 MA's), (31, 5814),

Gene: Eesa_8 Start: 7101, Stop: 7283, Start Num: 28

Candidate Starts for Eesa_8:

(Start: 28 @7101 has 125 MA's),

Gene: EstebanJulior_6 Start: 6182, Stop: 6361, Start Num: 28

Candidate Starts for EstebanJulior_6:

(12, 6101), (17, 6128), (Start: 28 @6182 has 125 MA's), (41, 6287),

Gene: Eunoia_6 Start: 6159, Stop: 6332, Start Num: 28

Candidate Starts for Eunoia_6:

(Start: 28 @6159 has 125 MA's),

Gene: Faith5x5_7 Start: 5658, Stop: 5912, Start Num: 6

Candidate Starts for Faith5x5_7:

(Start: 6 @5658 has 3 MA's), (9, 5682), (Start: 23 @5733 has 2 MA's), (39, 5820),

Gene: Fingolfin_7 Start: 6511, Stop: 6693, Start Num: 28

Candidate Starts for Fingolfin_7:

(Start: 28 @6511 has 125 MA's), (31, 6532),

Gene: Fluke_10 Start: 9043, Stop: 9222, Start Num: 28

Candidate Starts for Fluke_10:

(Start: 28 @9043 has 125 MA's),

Gene: Fulbright_7 Start: 5730, Stop: 5963, Start Num: 15

Candidate Starts for Fulbright_7:

(Start: 15 @5730 has 43 MA's), (Start: 30 @5799 has 3 MA's), (31, 5814),

Gene: Galaxy_8 Start: 6882, Stop: 7091, Start Num: 28

Candidate Starts for Galaxy_8:

(22, 6837), (Start: 28 @6882 has 125 MA's),

Gene: Gex_7 Start: 5730, Stop: 5963, Start Num: 15

Candidate Starts for Gex_7:

(Start: 15 @5730 has 43 MA's), (Start: 30 @5799 has 3 MA's), (31, 5814),

Gene: Gisselle_6 Start: 6184, Stop: 6363, Start Num: 28

Candidate Starts for Gisselle_6:

(18, 6133), (Start: 28 @6184 has 125 MA's), (38, 6268),

Gene: Glenn_10 Start: 9053, Stop: 9232, Start Num: 28

Candidate Starts for Glenn_10:

(Start: 28 @9053 has 125 MA's),

Gene: Glotell_7 Start: 6510, Stop: 6692, Start Num: 28

Candidate Starts for Glotell_7:

(Start: 28 @6510 has 125 MA's), (31, 6531),

Gene: Gravel_9 Start: 7098, Stop: 7280, Start Num: 28

Candidate Starts for Gravel_9:

(Start: 28 @7098 has 125 MA's),

Gene: Graynor_10 Start: 9039, Stop: 9233, Start Num: 28

Candidate Starts for Graynor_10:

(Start: 28 @9039 has 125 MA's),

Gene: GreenHearts_10 Start: 9107, Stop: 9301, Start Num: 28

Candidate Starts for GreenHearts_10:

(21, 9059), (Start: 28 @9107 has 125 MA's), (38, 9188),

Gene: Greenhouse_10 Start: 9032, Stop: 9226, Start Num: 28

Candidate Starts for Greenhouse_10:

(11, 8924), (Start: 28 @9032 has 125 MA's), (38, 9113),

Gene: Gudmit_8 Start: 6514, Stop: 6726, Start Num: 23

Candidate Starts for Gudmit_8:

(9, 6463), (Start: 23 @6514 has 2 MA's), (26, 6538), (36, 6601),

Gene: HamCheese_7 Start: 6510, Stop: 6692, Start Num: 28

Candidate Starts for HamCheese_7:

(Start: 28 @6510 has 125 MA's), (31, 6531),

Gene: Hanako_7 Start: 5753, Stop: 6004, Start Num: 15

Candidate Starts for Hanako_7:

(1, 5351), (2, 5453), (Start: 15 @5753 has 43 MA's), (Start: 30 @5822 has 3 MA's), (31, 5837),

Gene: HannahPhantana_9 Start: 7080, Stop: 7283, Start Num: 28

Candidate Starts for HannahPhantana_9:

(Start: 28 @7080 has 125 MA's), (31, 7101), (34, 7116), (35, 7125),

Gene: HeadNerd_6 Start: 6140, Stop: 6319, Start Num: 28
Candidate Starts for HeadNerd_6:
(Start: 28 @6140 has 125 MA's), (38, 6224), (41, 6245),

Gene: Herb_6 Start: 6161, Stop: 6334, Start Num: 28
Candidate Starts for Herb_6:
(Start: 28 @6161 has 125 MA's),

Gene: Huckleberry_6 Start: 6140, Stop: 6319, Start Num: 28
Candidate Starts for Huckleberry_6:
(Start: 28 @6140 has 125 MA's), (38, 6224), (41, 6245),

Gene: HunterDalle_6 Start: 6159, Stop: 6332, Start Num: 28
Candidate Starts for HunterDalle_6:
(Start: 28 @6159 has 125 MA's),

Gene: Huntingdon_10 Start: 9018, Stop: 9212, Start Num: 28
Candidate Starts for Huntingdon_10:
(Start: 28 @9018 has 125 MA's), (38, 9099),

Gene: Immaculata_10 Start: 9047, Stop: 9226, Start Num: 28
Candidate Starts for Immaculata_10:
(Start: 28 @9047 has 125 MA's),

Gene: Impisi_7 Start: 5753, Stop: 6004, Start Num: 15
Candidate Starts for Impisi_7:
(1, 5351), (2, 5453), (Start: 15 @5753 has 43 MA's), (Start: 30 @5822 has 3 MA's), (31, 5837),

Gene: Jamie19_7 Start: 5753, Stop: 6004, Start Num: 15
Candidate Starts for Jamie19_7:
(1, 5351), (2, 5453), (Start: 15 @5753 has 43 MA's), (Start: 30 @5822 has 3 MA's), (31, 5837),

Gene: JeanClaude_7 Start: 6199, Stop: 6378, Start Num: 28
Candidate Starts for JeanClaude_7:
(3, 5911), (4, 5992), (Start: 28 @6199 has 125 MA's), (31, 6220),

Gene: Jerole_9 Start: 7077, Stop: 7280, Start Num: 28
Candidate Starts for Jerole_9:
(Start: 28 @7077 has 125 MA's), (31, 7098), (34, 7113), (35, 7122),

Gene: Joann_10 Start: 9010, Stop: 9204, Start Num: 28
Candidate Starts for Joann_10:
(Start: 28 @9010 has 125 MA's), (38, 9091),

Gene: Journey_7 Start: 5730, Stop: 5963, Start Num: 15
Candidate Starts for Journey_7:
(Start: 15 @5730 has 43 MA's), (Start: 30 @5799 has 3 MA's), (31, 5814),

Gene: Jumboset_10 Start: 8996, Stop: 9175, Start Num: 28
Candidate Starts for Jumboset_10:
(Start: 28 @8996 has 125 MA's),

Gene: Juno112_7 Start: 6511, Stop: 6693, Start Num: 28

Candidate Starts for Juno112_7:
(Start: 28 @6511 has 125 MA's), (31, 6532),

Gene: KHumphrey_7 Start: 6510, Stop: 6692, Start Num: 28
Candidate Starts for KHumphrey_7:
(Start: 28 @6510 has 125 MA's), (31, 6531),

Gene: Kalizoi_10 Start: 8995, Stop: 9174, Start Num: 28
Candidate Starts for Kalizoi_10:
(Start: 28 @8995 has 125 MA's), (41, 9100),

Gene: KendraB23_9 Start: 7098, Stop: 7280, Start Num: 28
Candidate Starts for KendraB23_9:
(Start: 28 @7098 has 125 MA's),

Gene: Kepler_8 Start: 6915, Stop: 7118, Start Num: 28
Candidate Starts for Kepler_8:
(Start: 28 @6915 has 125 MA's), (31, 6936), (34, 6951), (35, 6960),

Gene: Kevin1_7 Start: 5729, Stop: 5977, Start Num: 15
Candidate Starts for Kevin1_7:
(5, 5600), (7, 5675), (8, 5678), (Start: 15 @5729 has 43 MA's), (Start: 30 @5798 has 3 MA's),

Gene: KingBob_6 Start: 6161, Stop: 6334, Start Num: 28
Candidate Starts for KingBob_6:
(Start: 28 @6161 has 125 MA's),

Gene: Kittykat_6 Start: 6181, Stop: 6360, Start Num: 28
Candidate Starts for Kittykat_6:
(18, 6130), (Start: 28 @6181 has 125 MA's), (38, 6265),

Gene: Korra_10 Start: 9001, Stop: 9180, Start Num: 28
Candidate Starts for Korra_10:
(Start: 28 @9001 has 125 MA's), (41, 9106),

Gene: Kuleana_8 Start: 6883, Stop: 7083, Start Num: 28
Candidate Starts for Kuleana_8:
(Start: 28 @6883 has 125 MA's), (31, 6904), (35, 6928), (43, 6994),

Gene: Kumotta_8 Start: 7171, Stop: 7326, Start Num: 27
Candidate Starts for Kumotta_8:
(Start: 27 @7171 has 2 MA's), (31, 7198), (37, 7231),

Gene: Lakshmi_10 Start: 9037, Stop: 9231, Start Num: 28
Candidate Starts for Lakshmi_10:
(Start: 28 @9037 has 125 MA's), (38, 9118),

Gene: Laphuphu24k_7 Start: 6510, Stop: 6692, Start Num: 28
Candidate Starts for Laphuphu24k_7:
(Start: 28 @6510 has 125 MA's), (31, 6531),

Gene: Lasagna_6 Start: 6138, Stop: 6317, Start Num: 28
Candidate Starts for Lasagna_6:

(Start: 28 @6138 has 125 MA's), (41, 6243), (44, 6273),

Gene: Lennox_6 Start: 6138, Stop: 6317, Start Num: 28

Candidate Starts for Lennox_6:

(Start: 28 @6138 has 125 MA's), (41, 6243), (44, 6273),

Gene: Leona_7 Start: 6489, Stop: 6743, Start Num: 14

Candidate Starts for Leona_7:

(Start: 14 @6489 has 1 MA's), (Start: 28 @6552 has 125 MA's), (31, 6573), (42, 6654),

Gene: LilStuart_6 Start: 6138, Stop: 6317, Start Num: 28

Candidate Starts for LilStuart_6:

(Start: 28 @6138 has 125 MA's), (41, 6243), (44, 6273),

Gene: Litotes_10 Start: 9003, Stop: 9197, Start Num: 28

Candidate Starts for Litotes_10:

(Start: 28 @9003 has 125 MA's),

Gene: LittleTokyo_8 Start: 6828, Stop: 7022, Start Num: 28

Candidate Starts for LittleTokyo_8:

(Start: 28 @6828 has 125 MA's),

Gene: Lton_7 Start: 5667, Stop: 5966, Start Num: 6

Candidate Starts for Lton_7:

(Start: 6 @5667 has 3 MA's), (9, 5691), (Start: 23 @5742 has 2 MA's), (29, 5787), (32, 5811),

Gene: Lucy_6 Start: 6129, Stop: 6308, Start Num: 28

Candidate Starts for Lucy_6:

(Start: 28 @6129 has 125 MA's), (41, 6234), (44, 6264),

Gene: Lunar_9 Start: 7077, Stop: 7280, Start Num: 28

Candidate Starts for Lunar_9:

(Start: 28 @7077 has 125 MA's), (31, 7098), (34, 7113), (35, 7122),

Gene: Magsby_7 Start: 5730, Stop: 5963, Start Num: 15

Candidate Starts for Magsby_7:

(Start: 15 @5730 has 43 MA's), (Start: 30 @5799 has 3 MA's), (31, 5814),

Gene: Makoto_6 Start: 6138, Stop: 6317, Start Num: 28

Candidate Starts for Makoto_6:

(Start: 28 @6138 has 125 MA's), (41, 6243), (44, 6273),

Gene: MamaPearl_6 Start: 6182, Stop: 6361, Start Num: 28

Candidate Starts for MamaPearl_6:

(12, 6101), (17, 6128), (Start: 28 @6182 has 125 MA's), (41, 6287),

Gene: Maria1952_6 Start: 6161, Stop: 6334, Start Num: 28

Candidate Starts for Maria1952_6:

(Start: 28 @6161 has 125 MA's),

Gene: MeganNoll_10 Start: 9053, Stop: 9232, Start Num: 28

Candidate Starts for MeganNoll_10:

(Start: 28 @9053 has 125 MA's),

Gene: Melons_9 Start: 7077, Stop: 7280, Start Num: 28
Candidate Starts for Melons_9:
(Start: 28 @7077 has 125 MA's), (31, 7098), (34, 7113), (35, 7122),

Gene: Melville_7 Start: 5799, Stop: 5963, Start Num: 30
Candidate Starts for Melville_7:
(Start: 15 @5730 has 43 MA's), (Start: 30 @5799 has 3 MA's), (31, 5814),

Gene: MichelleMyBell_7 Start: 5758, Stop: 5997, Start Num: 20
Candidate Starts for MichelleMyBell_7:
(5, 5614), (8, 5692), (10, 5701), (Start: 20 @5758 has 1 MA's), (25, 5788), (Start: 30 @5818 has 3 MA's),

Gene: Misaeng_10 Start: 9083, Stop: 9277, Start Num: 28
Candidate Starts for Misaeng_10:
(Start: 28 @9083 has 125 MA's), (38, 9164),

Gene: Moki_6 Start: 6140, Stop: 6319, Start Num: 28
Candidate Starts for Moki_6:
(Start: 28 @6140 has 125 MA's), (38, 6224), (41, 6245),

Gene: Moosehead_7 Start: 5649, Stop: 5903, Start Num: 6
Candidate Starts for Moosehead_7:
(Start: 6 @5649 has 3 MA's), (Start: 23 @5724 has 2 MA's),

Gene: MrBoss_10 Start: 9003, Stop: 9197, Start Num: 28
Candidate Starts for MrBoss_10:
(Start: 28 @9003 has 125 MA's),

Gene: MrGloopy_10 Start: 8986, Stop: 9165, Start Num: 28
Candidate Starts for MrGloopy_10:
(Start: 28 @8986 has 125 MA's),

Gene: Nancia_6 Start: 6138, Stop: 6317, Start Num: 28
Candidate Starts for Nancia_6:
(Start: 28 @6138 has 125 MA's), (41, 6243), (44, 6273),

Gene: Nenae_7 Start: 5753, Stop: 6004, Start Num: 15
Candidate Starts for Nenae_7:
(1, 5351), (2, 5453), (Start: 15 @5753 has 43 MA's), (Start: 30 @5822 has 3 MA's), (31, 5837),

Gene: Niblet_8 Start: 6886, Stop: 7068, Start Num: 28
Candidate Starts for Niblet_8:
(Start: 28 @6886 has 125 MA's), (33, 6913),

Gene: Nubia_10 Start: 8997, Stop: 9191, Start Num: 28
Candidate Starts for Nubia_10:
(Start: 28 @8997 has 125 MA's), (38, 9078),

Gene: OMalley_6 Start: 6159, Stop: 6332, Start Num: 28
Candidate Starts for OMalley_6:
(Start: 28 @6159 has 125 MA's),

Gene: OneDirection_7 Start: 5719, Stop: 5904, Start Num: 23
Candidate Starts for OneDirection_7:
(Start: 6 @5644 has 3 MA's), (Start: 23 @5719 has 2 MA's), (46, 5881),

Gene: Oppalora_7 Start: 6510, Stop: 6692, Start Num: 28
Candidate Starts for Oppalora_7:
(Start: 28 @6510 has 125 MA's), (31, 6531),

Gene: Orcanus_8 Start: 6891, Stop: 7073, Start Num: 28
Candidate Starts for Orcanus_8:
(Start: 28 @6891 has 125 MA's),

Gene: OtsoOtso_8 Start: 6916, Stop: 7119, Start Num: 28
Candidate Starts for OtsoOtso_8:
(Start: 28 @6916 has 125 MA's), (31, 6937), (34, 6952), (35, 6961),

Gene: OurGirlNessie_6 Start: 6129, Stop: 6308, Start Num: 28
Candidate Starts for OurGirlNessie_6:
(Start: 28 @6129 has 125 MA's), (41, 6234), (44, 6264),

Gene: Oxynfrius_10 Start: 9010, Stop: 9204, Start Num: 28
Candidate Starts for Oxynfrius_10:
(Start: 28 @9010 has 125 MA's), (38, 9091),

Gene: Panchino_7 Start: 5753, Stop: 5980, Start Num: 15
Candidate Starts for Panchino_7:
(1, 5351), (2, 5453), (Start: 15 @5753 has 43 MA's), (Start: 30 @5822 has 3 MA's), (31, 5837),

Gene: Parmesanjohn_7 Start: 5730, Stop: 5963, Start Num: 15
Candidate Starts for Parmesanjohn_7:
(Start: 15 @5730 has 43 MA's), (Start: 30 @5799 has 3 MA's), (31, 5814),

Gene: PartyCup_10 Start: 9050, Stop: 9244, Start Num: 28
Candidate Starts for PartyCup_10:
(Start: 28 @9050 has 125 MA's),

Gene: Pelletreau_9 Start: 7098, Stop: 7280, Start Num: 28
Candidate Starts for Pelletreau_9:
(Start: 28 @7098 has 125 MA's),

Gene: Pepperoni_7 Start: 5961, Stop: 6260, Start Num: 6
Candidate Starts for Pepperoni_7:
(Start: 6 @5961 has 3 MA's), (9, 5985), (Start: 23 @6036 has 2 MA's), (29, 6081), (32, 6105),

Gene: PhancyPhin_7 Start: 5753, Stop: 6004, Start Num: 15
Candidate Starts for PhancyPhin_7:
(1, 5351), (2, 5453), (Start: 15 @5753 has 43 MA's), (Start: 30 @5822 has 3 MA's), (31, 5837),

Gene: Philonius_7 Start: 5730, Stop: 5963, Start Num: 15
Candidate Starts for Philonius_7:
(Start: 15 @5730 has 43 MA's), (Start: 30 @5799 has 3 MA's), (31, 5814),

Gene: PhirstandPhine_9 Start: 7077, Stop: 7280, Start Num: 28
Candidate Starts for PhirstandPhine_9:
(Start: 28 @7077 has 125 MA's), (31, 7098), (34, 7113), (35, 7122),

Gene: Phloss_7 Start: 5730, Stop: 5963, Start Num: 15
Candidate Starts for Phloss_7:
(Start: 15 @5730 has 43 MA's), (Start: 30 @5799 has 3 MA's), (31, 5814),

Gene: PhluffyCoco_7 Start: 6510, Stop: 6692, Start Num: 28
Candidate Starts for PhluffyCoco_7:
(Start: 28 @6510 has 125 MA's), (31, 6531),

Gene: Phrann_7 Start: 5753, Stop: 6004, Start Num: 15
Candidate Starts for Phrann_7:
(1, 5351), (2, 5453), (Start: 15 @5753 has 43 MA's), (Start: 30 @5822 has 3 MA's), (31, 5837),

Gene: Pigu_7 Start: 5789, Stop: 5935, Start Num: 30
Candidate Starts for Pigu_7:
(Start: 30 @5789 has 3 MA's),

Gene: Pineda_9 Start: 7077, Stop: 7280, Start Num: 28
Candidate Starts for Pineda_9:
(Start: 28 @7077 has 125 MA's), (31, 7098), (34, 7113), (35, 7122),

Gene: PinkFriday_6 Start: 6162, Stop: 6335, Start Num: 28
Candidate Starts for PinkFriday_6:
(Start: 28 @6162 has 125 MA's),

Gene: Pipsqueaks_7 Start: 5730, Stop: 5963, Start Num: 15
Candidate Starts for Pipsqueaks_7:
(Start: 15 @5730 has 43 MA's), (Start: 30 @5799 has 3 MA's), (31, 5814),

Gene: PitaDog_6 Start: 6129, Stop: 6308, Start Num: 28
Candidate Starts for PitaDog_6:
(Start: 28 @6129 has 125 MA's), (41, 6234), (44, 6264),

Gene: Polka_8 Start: 6916, Stop: 7119, Start Num: 28
Candidate Starts for Polka_8:
(Start: 28 @6916 has 125 MA's), (31, 6937), (34, 6952), (35, 6961),

Gene: Potatoes_10 Start: 9047, Stop: 9226, Start Num: 28
Candidate Starts for Potatoes_10:
(Start: 28 @9047 has 125 MA's),

Gene: Preamble_6 Start: 6139, Stop: 6318, Start Num: 28
Candidate Starts for Preamble_6:
(Start: 28 @6139 has 125 MA's), (38, 6223),

Gene: Pterodactyl_6 Start: 6130, Stop: 6309, Start Num: 28
Candidate Starts for Pterodactyl_6:
(Start: 28 @6130 has 125 MA's), (41, 6235), (44, 6265),

Gene: Pumancara_6 Start: 6161, Stop: 6334, Start Num: 28

Candidate Starts for Pumancara_6:
(Start: 28 @6161 has 125 MA's),

Gene: Purgamenstris_7 Start: 5753, Stop: 6004, Start Num: 15
Candidate Starts for Purgamenstris_7:
(1, 5351), (2, 5453), (Start: 15 @5753 has 43 MA's), (Start: 30 @5822 has 3 MA's), (31, 5837),

Gene: RAP15_10 Start: 9053, Stop: 9232, Start Num: 28
Candidate Starts for RAP15_10:
(Start: 28 @9053 has 125 MA's),

Gene: Rattail_7 Start: 6552, Stop: 6743, Start Num: 28
Candidate Starts for Rattail_7:
(Start: 14 @6489 has 1 MA's), (Start: 28 @6552 has 125 MA's), (31, 6573), (42, 6654),

Gene: Raymond7_7 Start: 5753, Stop: 6004, Start Num: 15
Candidate Starts for Raymond7_7:
(1, 5351), (2, 5453), (Start: 15 @5753 has 43 MA's), (Start: 30 @5822 has 3 MA's), (31, 5837),

Gene: RcigaStruga_10 Start: 9018, Stop: 9212, Start Num: 28
Candidate Starts for RcigaStruga_10:
(Start: 28 @9018 has 125 MA's), (38, 9099),

Gene: Rebel_7 Start: 5753, Stop: 6004, Start Num: 15
Candidate Starts for Rebel_7:
(1, 5351), (2, 5453), (Start: 15 @5753 has 43 MA's), (Start: 30 @5822 has 3 MA's), (31, 5837),

Gene: RedFox_7 Start: 6510, Stop: 6692, Start Num: 28
Candidate Starts for RedFox_7:
(Start: 28 @6510 has 125 MA's), (31, 6531),

Gene: Redi_7 Start: 5753, Stop: 6004, Start Num: 15
Candidate Starts for Redi_7:
(1, 5351), (2, 5453), (Start: 15 @5753 has 43 MA's), (Start: 30 @5822 has 3 MA's), (31, 5837),

Gene: Renna12_8 Start: 6698, Stop: 6889, Start Num: 28
Candidate Starts for Renna12_8:
(Start: 28 @6698 has 125 MA's), (31, 6719), (42, 6800),

Gene: Riovina_6 Start: 6159, Stop: 6332, Start Num: 28
Candidate Starts for Riovina_6:
(Start: 28 @6159 has 125 MA's),

Gene: Riverdale_10 Start: 8984, Stop: 9163, Start Num: 28
Candidate Starts for Riverdale_10:
(Start: 28 @8984 has 125 MA's),

Gene: Rooter_7 Start: 5814, Stop: 5960, Start Num: 30
Candidate Starts for Rooter_7:
(Start: 30 @5814 has 3 MA's), (34, 5844), (41, 5907),

Gene: Rozby_10 Start: 8984, Stop: 9163, Start Num: 28
Candidate Starts for Rozby_10:

(Start: 28 @8984 has 125 MA's),

Gene: Rubeelu_7 Start: 5729, Stop: 5977, Start Num: 15

Candidate Starts for Rubeelu_7:

(5, 5600), (7, 5675), (8, 5678), (Start: 15 @5729 has 43 MA's), (Start: 30 @5798 has 3 MA's), (31, 5813), (36, 5840),

Gene: Ruchi_8 Start: 7139, Stop: 7354, Start Num: 28

Candidate Starts for Ruchi_8:

(16, 7082), (19, 7088), (Start: 28 @7139 has 125 MA's),

Gene: Sarge_7 Start: 6203, Stop: 6382, Start Num: 28

Candidate Starts for Sarge_7:

(Start: 28 @6203 has 125 MA's), (31, 6224),

Gene: Savage2526_10 Start: 9047, Stop: 9226, Start Num: 28

Candidate Starts for Savage2526_10:

(Start: 28 @9047 has 125 MA's),

Gene: Schnauzer_7 Start: 5730, Stop: 5963, Start Num: 15

Candidate Starts for Schnauzer_7:

(Start: 15 @5730 has 43 MA's), (Start: 30 @5799 has 3 MA's), (31, 5814),

Gene: Scitech_7 Start: 5799, Stop: 5963, Start Num: 30

Candidate Starts for Scitech_7:

(Start: 15 @5730 has 43 MA's), (Start: 30 @5799 has 3 MA's), (31, 5814),

Gene: Scuttle_10 Start: 9053, Stop: 9232, Start Num: 28

Candidate Starts for Scuttle_10:

(Start: 28 @9053 has 125 MA's), (41, 9158),

Gene: Sergei_6 Start: 6161, Stop: 6334, Start Num: 28

Candidate Starts for Sergei_6:

(Start: 28 @6161 has 125 MA's),

Gene: Shen_9 Start: 7098, Stop: 7280, Start Num: 28

Candidate Starts for Shen_9:

(Start: 28 @7098 has 125 MA's),

Gene: Shoya_6 Start: 5816, Stop: 5962, Start Num: 30

Candidate Starts for Shoya_6:

(Start: 30 @5816 has 3 MA's), (34, 5846), (40, 5903),

Gene: ShrimpFriedEgg_7 Start: 5753, Stop: 6004, Start Num: 15

Candidate Starts for ShrimpFriedEgg_7:

(1, 5351), (2, 5453), (Start: 15 @5753 has 43 MA's), (Start: 30 @5822 has 3 MA's), (31, 5837),

Gene: Shweta_7 Start: 5753, Stop: 6004, Start Num: 15

Candidate Starts for Shweta_7:

(1, 5351), (2, 5453), (Start: 15 @5753 has 43 MA's), (Start: 30 @5822 has 3 MA's), (31, 5837),

Gene: Silvafighter_7 Start: 5730, Stop: 5963, Start Num: 15

Candidate Starts for Silvafighter_7:

(Start: 15 @5730 has 43 MA's), (Start: 30 @5799 has 3 MA's), (31, 5814),

Gene: Silvy_7 Start: 5730, Stop: 5963, Start Num: 15

Candidate Starts for Silvy_7:

(Start: 15 @5730 has 43 MA's), (Start: 30 @5799 has 3 MA's), (31, 5814),

Gene: SkinnyPete_7 Start: 5753, Stop: 6004, Start Num: 15

Candidate Starts for SkinnyPete_7:

(1, 5351), (2, 5453), (Start: 15 @5753 has 43 MA's), (Start: 30 @5822 has 3 MA's), (31, 5837),

Gene: Smurph_7 Start: 5730, Stop: 5963, Start Num: 15

Candidate Starts for Smurph_7:

(Start: 15 @5730 has 43 MA's), (Start: 30 @5799 has 3 MA's), (31, 5814),

Gene: Snekmaggedon_7 Start: 5822, Stop: 6004, Start Num: 30

Candidate Starts for Snekmaggedon_7:

(1, 5351), (2, 5453), (Start: 15 @5753 has 43 MA's), (Start: 30 @5822 has 3 MA's), (31, 5837),

Gene: Spinach_7 Start: 5753, Stop: 6004, Start Num: 15

Candidate Starts for Spinach_7:

(1, 5351), (2, 5453), (Start: 15 @5753 has 43 MA's), (Start: 30 @5822 has 3 MA's), (31, 5837),

Gene: SpongeBob_7 Start: 5753, Stop: 6004, Start Num: 15

Candidate Starts for SpongeBob_7:

(1, 5351), (2, 5453), (Start: 15 @5753 has 43 MA's), (Start: 30 @5822 has 3 MA's), (31, 5837),

Gene: StuartMinion_7 Start: 6509, Stop: 6718, Start Num: 28

Candidate Starts for StuartMinion_7:

(13, 6431), (Start: 28 @6509 has 125 MA's), (31, 6530), (42, 6611),

Gene: Supakev_6 Start: 6161, Stop: 6334, Start Num: 28

Candidate Starts for Supakev_6:

(Start: 28 @6161 has 125 MA's),

Gene: Suppi_10 Start: 9050, Stop: 9244, Start Num: 28

Candidate Starts for Suppi_10:

(Start: 28 @9050 has 125 MA's),

Gene: Tapioca_7 Start: 5730, Stop: 5963, Start Num: 15

Candidate Starts for Tapioca_7:

(Start: 15 @5730 has 43 MA's), (Start: 30 @5799 has 3 MA's), (31, 5814),

Gene: TattModd_10 Start: 9047, Stop: 9226, Start Num: 28

Candidate Starts for TattModd_10:

(Start: 28 @9047 has 125 MA's),

Gene: TaylorSipht_8 Start: 6914, Stop: 7159, Start Num: 28

Candidate Starts for TaylorSipht_8:

(Start: 28 @6914 has 125 MA's),

Gene: Temper16_6 Start: 6161, Stop: 6334, Start Num: 28

Candidate Starts for Temper16_6:

(Start: 28 @6161 has 125 MA's),

Gene: Tessdabest_6 Start: 5799, Stop: 5963, Start Num: 30
Candidate Starts for Tessdabest_6:
(Start: 15 @5730 has 43 MA's), (Start: 30 @5799 has 3 MA's), (31, 5814),

Gene: Toad24_9 Start: 7098, Stop: 7280, Start Num: 28
Candidate Starts for Toad24_9:
(Start: 28 @7098 has 125 MA's),

Gene: Tortoise12_7 Start: 5730, Stop: 5963, Start Num: 15
Candidate Starts for Tortoise12_7:
(Start: 15 @5730 has 43 MA's), (Start: 30 @5799 has 3 MA's), (31, 5814),

Gene: Urla_6 Start: 6185, Stop: 6364, Start Num: 28
Candidate Starts for Urla_6:
(Start: 15 @6125 has 43 MA's), (17, 6131), (Start: 28 @6185 has 125 MA's), (41, 6290),

Gene: Vallejo_10 Start: 8985, Stop: 9164, Start Num: 28
Candidate Starts for Vallejo_10:
(Start: 28 @8985 has 125 MA's),

Gene: Vulpecula_8 Start: 7215, Stop: 7430, Start Num: 28
Candidate Starts for Vulpecula_8:
(Start: 28 @7215 has 125 MA's),

Gene: Vulture_6 Start: 6159, Stop: 6332, Start Num: 28
Candidate Starts for Vulture_6:
(Start: 28 @6159 has 125 MA's),

Gene: Wawa_10 Start: 9022, Stop: 9201, Start Num: 28
Candidate Starts for Wawa_10:
(Start: 28 @9022 has 125 MA's), (41, 9127),

Gene: Wayne_10 Start: 9096, Stop: 9290, Start Num: 28
Candidate Starts for Wayne_10:
(Start: 28 @9096 has 125 MA's),

Gene: Westrich_9 Start: 7086, Stop: 7268, Start Num: 28
Candidate Starts for Westrich_9:
(Start: 28 @7086 has 125 MA's),

Gene: WileyE_7 Start: 6580, Stop: 6765, Start Num: 28
Candidate Starts for WileyE_7:
(16, 6526), (19, 6532), (Start: 28 @6580 has 125 MA's), (41, 6679),

Gene: WonderBoy_6 Start: 6138, Stop: 6317, Start Num: 28
Candidate Starts for WonderBoy_6:
(Start: 28 @6138 has 125 MA's), (41, 6243), (44, 6273),

Gene: Xeno_7 Start: 5730, Stop: 5963, Start Num: 15
Candidate Starts for Xeno_7:
(Start: 15 @5730 has 43 MA's), (Start: 30 @5799 has 3 MA's), (31, 5814),

Gene: Xerxes_7 Start: 5730, Stop: 5963, Start Num: 15
Candidate Starts for Xerxes_7:
(Start: 15 @5730 has 43 MA's), (Start: 30 @5799 has 3 MA's), (31, 5814),

Gene: Zhuangyuan_9 Start: 7207, Stop: 7446, Start Num: 28
Candidate Starts for Zhuangyuan_9:
(Start: 28 @7207 has 125 MA's),

Gene: Zixiang_8 Start: 6886, Stop: 7068, Start Num: 28
Candidate Starts for Zixiang_8:
(Start: 28 @6886 has 125 MA's), (33, 6913),

Gene: Zorro_10 Start: 9001, Stop: 9180, Start Num: 28
Candidate Starts for Zorro_10:
(Start: 28 @9001 has 125 MA's), (41, 9106),