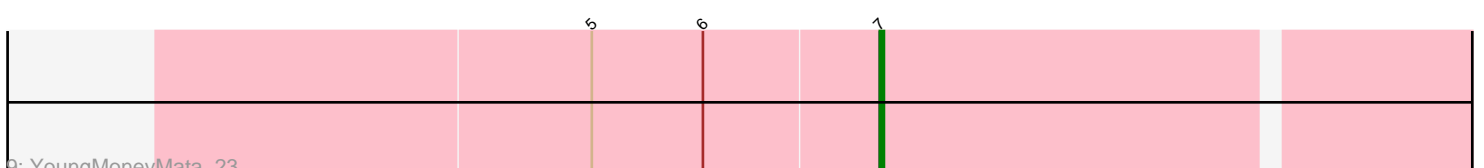
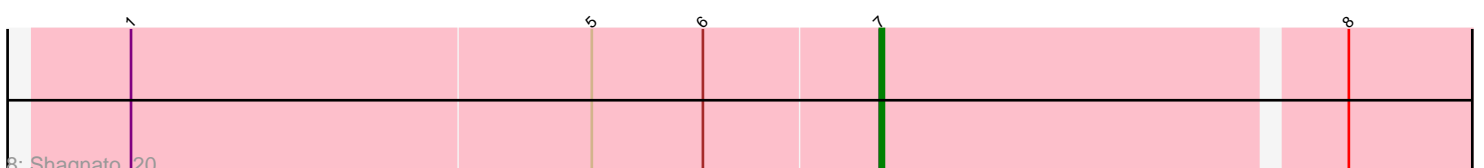
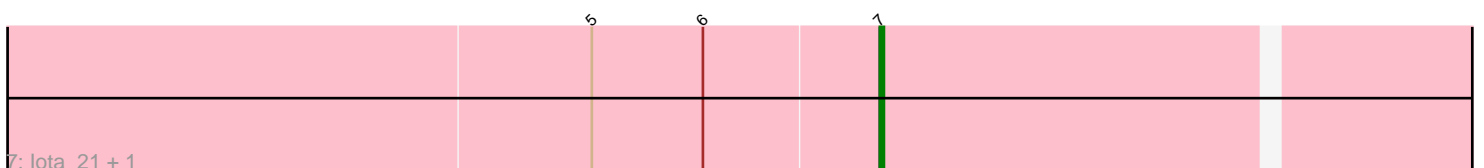
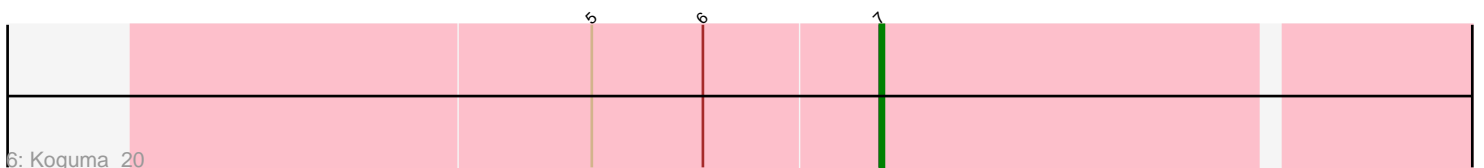
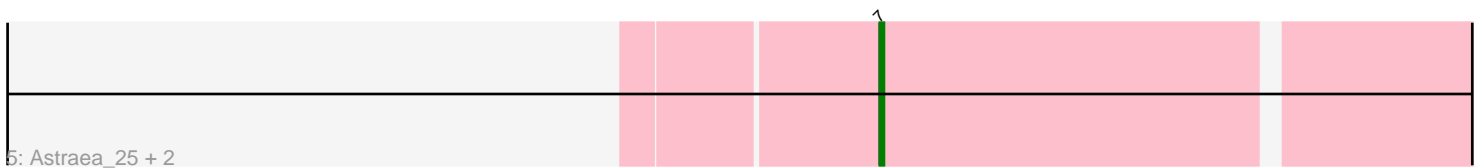
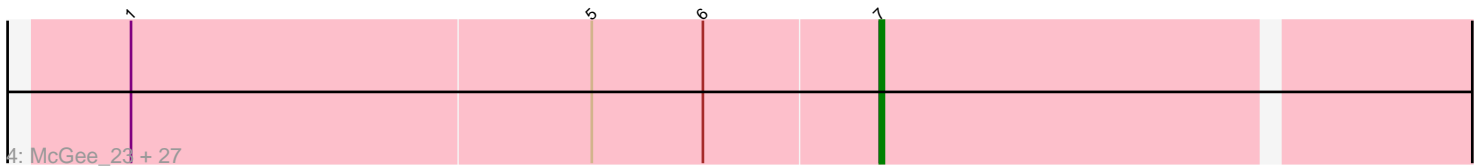
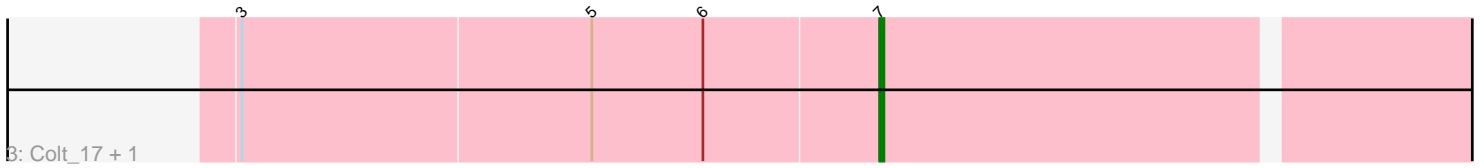
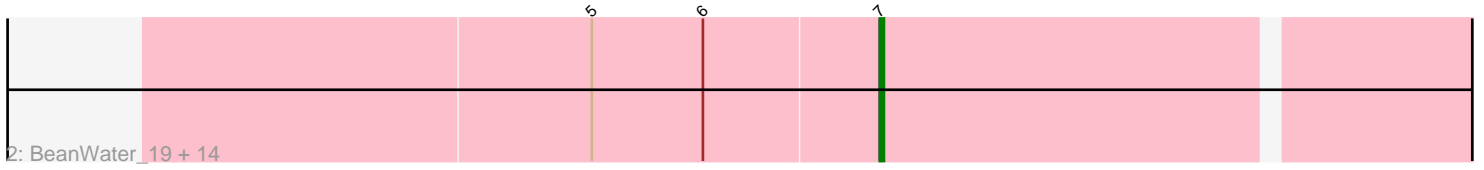
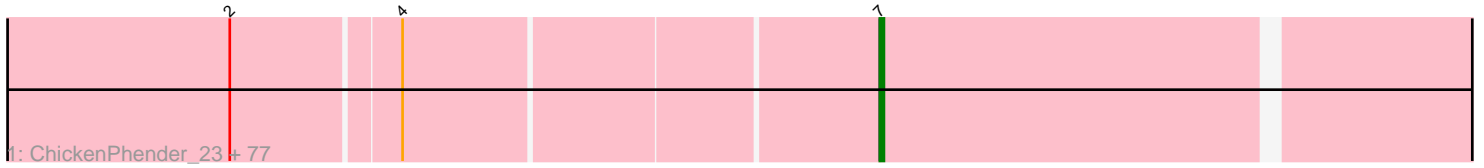


Pham 178945



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 178945 Report

This analysis was run 11/02/24 on database version 579.

Pham number 178945 has 131 members, 4 are drafts.

Phages represented in each track:

- Track 1 : ChickenPhender_23, Kboogie_24, Quasimodo_23, Babyland_23, Pleione_26, Ava3_25, Adlitam_23, Amataga_23, EmToTheThree_27, Izajani_25, Jaygup_23, Patter_23, NedWong_25, LifeSavor_24, Zalkecks_26, Bigswole_30, Phlegm_25, YemiJoy2021_25, TinyTim_24, SmallFry_23, Bread_25, Audrick_25, Phusco_23, Teardrop_23, Morizzled23_23, Atlantean_23, Ading_23, JustHall_23, Shrimp_24, Bonray_24, Janiyra_23, Norm_24, Yucca_24, Loanshark_24, Delilah_24, Darko_23, Gangam_23, Basquiat_23, Pivoine_23, Breeniome_24, Daffodil_26, Salacia_26, Gabriel_24, Jedediah_24, Blubba_18, Kamryn_23, Guwapp_23, Melpomini_23, Latch_23, CindyLou_23, DrPhinkDaddy_24, Derek_24, Jemmno_23, ShiaLabeouf_23, FudgeTart_25, ValleyTerrace_23, ChaylaJr_23, Erdmann_25, Trinitium_23, Megamind_24, Chargie21_23, Capablanca_25, Roots515_24, SilverDipper_24, Shnickers_23, Chomp_23, Gizmo_26, Fludd_23, Tortoise16_22, Rahel_23, Specks_28, Maby2021_25, Mangeria_27, Pio_27, Wally_23, Naija_23, Napoleon13_23, Ewok_24
- Track 2 : BeanWater_19, Jessibeth14_23, IkeLoa_19, Pier_25, SrishMeg2525_23, PurduePete_23, EggyFarm_28, NuevoMundo_27, Naval22_26, Burrough_24, Grasshills_28, Bipolarisk_23, BigCity_28, RoMag_18, NoodleTree_22
- Track 3 : Colt_17, Cane17_17
- Track 4 : McGee_23, Turret_22, Blackbrain_22, CharlieB_24, Phox_23, Rabinovish_23, Khaleesi_23, Sprinklers_24, Ronan_19, Stubby_22, Cactojaque_21, Pinkcreek_16, StubbySaigey_23, Nidhogg_25, HyRo_22, FoxtrotP1_24, BadAgartude_25, Shelob_26, QBert_22, Ngannou_22, Alice_19, EmmaElysia_22, EasyJones_23, Flabslab_25, Yassified_21, Sauce_25, JPickles_22, McWolfish_23
- Track 5 : Astraea_25, FrayBell_30, InterFolia_30
- Track 6 : Koguma_20
- Track 7 : Iota_21, Essence_22
- Track 8 : Shaqnato_20
- Track 9 : YoungMoneyMata_23

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 127 of the 127 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ading_23, Adlitam_23, Alice_19, Amataga_23, Astraea_25, Atlantean_23, Audrick_25, Ava3_25, Babyland_23, BadAgartude_25, Basquiat_23, BeanWater_19, BigCity_28, Bigswole_30, Bipolarisk_23, Blackbrain_22, Blubba_18, Bonray_24, Bread_25, Breeniome_24, Burrough_24, Cactojaque_21, Cane17_17, Capablanca_25, Chargie21_23, CharlieB_24, ChaylaJr_23, ChickenPhender_23, Chomp_23, CindyLou_23, Colt_17, Daffodil_26, Darko_23, Delilah_24, Derek_24, DrPhinkDaddy_24, EasyJones_23, EggyFarm_28, EmToTheThree_27, EmmaElysia_22, Erdmann_25, Essence_22, Ewok_24, Flabslab_25, Fludd_23, FoxtrotP1_24, FrayBell_30, FudgeTart_25, Gabriel_24, Gamgam_23, Gizmo_26, Grasshills_28, Guwapp_23, HyRo_22, IkeLoa_19, InterFolia_30, Iota_21, Izajani_25, JPickles_22, Janiyra_23, Jaygup_23, Jedediah_24, Jemmno_23, Jessibeth14_23, JustHall_23, Kamryn_23, Kboogie_24, Khaleesi_23, Koguma_20, Latch_23, LifeSavor_24, Loanshark_24, Maby2021_25, Mangeria_27, McGee_23, McWolfish_23, Megamind_24, Melpomini_23, Morizzled23_23, Naija_23, Napoleon13_23, Naval22_26, NedWong_25, Ngannou_22, Nidhogg_25, NoodleTree_22, Norm_24, NuevoMundo_27, Patter_23, Phlegm_25, Phox_23, Phusco_23, Pier_25, Pinkcreek_16, Pio_27, Pivoine_23, Pleione_26, PurduePete_23, QBert_22, Quasimodo_23, Rabinovish_23, Rahel_23, RoMag_18, Ronan_19, Roots515_24, Salacia_26, Sauce_25, Shaqnato_20, Shelob_26, ShiaLabeouf_23, Shnickers_23, Shrimp_24, SilverDipper_24, SmallFry_23, Specks_28, Sprinklers_24, SrishMeg2525_23, StubbySaigey_23, Stubby_22, Teardrop_23, TinyTim_24, Tortoise16_22, Trinitium_23, Turret_22, ValleyTerrace_23, Wally_23, Yassified_21, YemiJoy2021_25, YoungMoneyMata_23, Yucca_24, Zalkecks_26,

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

-

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

-

Summary by start number:

Start 7:

- Found in 131 of 131 (100.0%) of genes in pham
- Manual Annotations of this start: 127 of 127
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ading_23 (C1), Adlitam_23 (C1), Alice_19 (C1), Amataga_23 (C1), Astraea_25 (C1), Atlantean_23 (C1), Audrick_25 (C1), Ava3_25 (C1), Babyland_23 (C1), BadAgartude_25 (C1), Basquiat_23 (C1), BeanWater_19 (C1), BigCity_28 (C1), Bigswole_30 (C1), Bipolarisk_23 (C1), Blackbrain_22 (C1), Blubba_18 (C1), Bonray_24 (C1), Bread_25 (C1), Breeniome_24 (C1), Burrough_24 (C1), Cactojaque_21 (C1), Cane17_17 (C1), Capablanca_25 (C1), Chargie21_23 (C1), CharlieB_24 (C1), ChaylaJr_23 (C1), ChickenPhender_23 (C1), Chomp_23 (C1), CindyLou_23 (C1), Colt_17 (C1), Daffodil_26 (C1), Darko_23 (C1), Delilah_24 (C1), Derek_24 (C1), DrPhinkDaddy_24 (C1), EasyJones_23 (C1), EggyFarm_28 (C1), EmToTheThree_27 (C1), EmmaElysia_22 (C1), Erdmann_25 (C1), Essence_22 (C1), Ewok_24 (C1), Flabslab_25 (C1), Fludd_23 (C1), FoxtrotP1_24 (C1), FrayBell_30 (C1), FudgeTart_25 (C1), Gabriel_24 (C1), Gamgam_23 (C1), Gizmo_26 (C1), Grasshills_28 (C1), Guwapp_23 (C1), HyRo_22 (C1), IkeLoa_19 (C1), InterFolia_30 (C1), Iota_21 (C1), Izajani_25 (C1), JPickles_22 (C1), Janiyra_23 (C1), Jaygup_23 (C1), Jedediah_24 (C1), Jemmno_23 (C1),

Jessibeth14_23 (C1), JustHall_23 (C1), Kamryn_23 (C1), Kboogie_24 (C1), Khaleesi_23 (C1), Koguma_20 (C1), Latch_23 (C1), LifeSavor_24 (C1), Loanshark_24 (C1), Maby2021_25 (C1), Mangeria_27 (C1), McGee_23 (C1), McWolfish_23 (C1), Megamind_24 (C1), Melpomini_23 (C1), Morizzled23_23 (C1), Naija_23 (C1), Napoleon13_23 (C1), Naval22_26 (C1), NedWong_25 (C1), Ngannou_22 (C1), Nidhogg_25 (C1), NoodleTree_22 (C1), Norm_24 (C1), NuevoMundo_27 (C1), Patter_23 (C1), Phlegm_25 (C1), Phox_23 (C1), Phusco_23 (C1), Pier_25 (C1), Pinkcreek_16 (C1), Pio_27 (C1), Pivoine_23 (C1), Pleione_26 (C1), PurduePete_23 (C1), QBert_22 (C1), Quasimodo_23 (C1), Rabinovich_23 (C1), Rahel_23 (C1), RoMag_18 (C1), Ronan_19 (C1), Roots515_24 (C1), Salacia_26 (C1), Sauce_25 (C1), Shaqnato_20 (C1), Shelob_26 (C1), ShiaLabeouf_23 (C1), Shnickers_23 (C1), Shrimp_24 (C1), SilverDipper_24 (C1), SmallFry_23 (C1), Specks_28 (C1), Sprinklers_24 (C1), SrishMeg2525_23 (C1), StubbySaigey_23 (C1), Stubby_22 (C1), Teardrop_23 (C1), TinyTim_24 (C1), Tortoise16_22 (C1), Trinitium_23 (C1), Turret_22 (C1), ValleyTerrace_23 (C1), Wally_23 (C1), Yassified_21 (C1), YemiJoy2021_25 (C1), YoungMoneyMata_23 (C1), Yucca_24 (C1), Zalkecks_26 (C1),

Summary by clusters:

There is one cluster represented in this pham: C1

Info for manual annotations of cluster C1:

- Start number 7 was manually annotated 127 times for cluster C1.

Gene Information:

Gene: Ading_23 Start: 7002, Stop: 7154, Start Num: 7

Candidate Starts for Ading_23:

(2, 6852), (4, 6891), (Start: 7 @7002 has 127 MA's),

Gene: Adlitam_23 Start: 7019, Stop: 7171, Start Num: 7

Candidate Starts for Adlitam_23:

(2, 6869), (4, 6908), (Start: 7 @7019 has 127 MA's),

Gene: Alice_19 Start: 6611, Stop: 6769, Start Num: 7

Candidate Starts for Alice_19:

(1, 6431), (5, 6542), (6, 6569), (Start: 7 @6611 has 127 MA's),

Gene: Amataga_23 Start: 7023, Stop: 7175, Start Num: 7

Candidate Starts for Amataga_23:

(2, 6873), (4, 6912), (Start: 7 @7023 has 127 MA's),

Gene: Astraea_25 Start: 7704, Stop: 7856, Start Num: 7

Candidate Starts for Astraea_25:

(Start: 7 @7704 has 127 MA's),

Gene: Atlantean_23 Start: 7023, Stop: 7175, Start Num: 7

Candidate Starts for Atlantean_23:

(2, 6873), (4, 6912), (Start: 7 @7023 has 127 MA's),

Gene: Audrick_25 Start: 7002, Stop: 7154, Start Num: 7
Candidate Starts for Audrick_25:
(2, 6852), (4, 6891), (Start: 7 @7002 has 127 MA's),

Gene: Ava3_25 Start: 8097, Stop: 8249, Start Num: 7
Candidate Starts for Ava3_25:
(2, 7947), (4, 7986), (Start: 7 @8097 has 127 MA's),

Gene: Babyland_23 Start: 6984, Stop: 7136, Start Num: 7
Candidate Starts for Babyland_23:
(2, 6834), (4, 6873), (Start: 7 @6984 has 127 MA's),

Gene: BadAgartude_25 Start: 8178, Stop: 8330, Start Num: 7
Candidate Starts for BadAgartude_25:
(1, 7998), (5, 8109), (6, 8136), (Start: 7 @8178 has 127 MA's),

Gene: Basquiat_23 Start: 6965, Stop: 7117, Start Num: 7
Candidate Starts for Basquiat_23:
(2, 6815), (4, 6854), (Start: 7 @6965 has 127 MA's),

Gene: BeanWater_19 Start: 7133, Stop: 7285, Start Num: 7
Candidate Starts for BeanWater_19:
(5, 7064), (6, 7091), (Start: 7 @7133 has 127 MA's),

Gene: BigCity_28 Start: 9083, Stop: 9235, Start Num: 7
Candidate Starts for BigCity_28:
(5, 9014), (6, 9041), (Start: 7 @9083 has 127 MA's),

Gene: Bigswole_30 Start: 9621, Stop: 9773, Start Num: 7
Candidate Starts for Bigswole_30:
(2, 9471), (4, 9510), (Start: 7 @9621 has 127 MA's),

Gene: Bipolarisk_23 Start: 7823, Stop: 7975, Start Num: 7
Candidate Starts for Bipolarisk_23:
(5, 7754), (6, 7781), (Start: 7 @7823 has 127 MA's),

Gene: Blackbrain_22 Start: 6781, Stop: 6933, Start Num: 7
Candidate Starts for Blackbrain_22:
(1, 6601), (5, 6712), (6, 6739), (Start: 7 @6781 has 127 MA's),

Gene: Blubba_18 Start: 6287, Stop: 6439, Start Num: 7
Candidate Starts for Blubba_18:
(2, 6137), (4, 6176), (Start: 7 @6287 has 127 MA's),

Gene: Bonray_24 Start: 8091, Stop: 8243, Start Num: 7
Candidate Starts for Bonray_24:
(2, 7941), (4, 7980), (Start: 7 @8091 has 127 MA's),

Gene: Bread_25 Start: 8097, Stop: 8249, Start Num: 7
Candidate Starts for Bread_25:
(2, 7947), (4, 7986), (Start: 7 @8097 has 127 MA's),

Gene: Breeniome_24 Start: 6980, Stop: 7132, Start Num: 7

Candidate Starts for Breeniome_24:
(2, 6830), (4, 6869), (Start: 7 @6980 has 127 MA's),

Gene: Burrough_24 Start: 7823, Stop: 7975, Start Num: 7
Candidate Starts for Burrough_24:
(5, 7754), (6, 7781), (Start: 7 @7823 has 127 MA's),

Gene: Cactojaque_21 Start: 6670, Stop: 6822, Start Num: 7
Candidate Starts for Cactojaque_21:
(1, 6490), (5, 6601), (6, 6628), (Start: 7 @6670 has 127 MA's),

Gene: Cane17_17 Start: 6159, Stop: 6311, Start Num: 7
Candidate Starts for Cane17_17:
(3, 6006), (5, 6090), (6, 6117), (Start: 7 @6159 has 127 MA's),

Gene: Capablanca_25 Start: 8148, Stop: 8300, Start Num: 7
Candidate Starts for Capablanca_25:
(2, 7998), (4, 8037), (Start: 7 @8148 has 127 MA's),

Gene: Chargie21_23 Start: 6965, Stop: 7117, Start Num: 7
Candidate Starts for Chargie21_23:
(2, 6815), (4, 6854), (Start: 7 @6965 has 127 MA's),

Gene: CharlieB_24 Start: 7119, Stop: 7271, Start Num: 7
Candidate Starts for CharlieB_24:
(1, 6939), (5, 7050), (6, 7077), (Start: 7 @7119 has 127 MA's),

Gene: ChaylaJr_23 Start: 7052, Stop: 7204, Start Num: 7
Candidate Starts for ChaylaJr_23:
(2, 6902), (4, 6941), (Start: 7 @7052 has 127 MA's),

Gene: ChickenPhender_23 Start: 7010, Stop: 7162, Start Num: 7
Candidate Starts for ChickenPhender_23:
(2, 6860), (4, 6899), (Start: 7 @7010 has 127 MA's),

Gene: Chomp_23 Start: 7023, Stop: 7175, Start Num: 7
Candidate Starts for Chomp_23:
(2, 6873), (4, 6912), (Start: 7 @7023 has 127 MA's),

Gene: CindyLou_23 Start: 7023, Stop: 7175, Start Num: 7
Candidate Starts for CindyLou_23:
(2, 6873), (4, 6912), (Start: 7 @7023 has 127 MA's),

Gene: Colt_17 Start: 6165, Stop: 6317, Start Num: 7
Candidate Starts for Colt_17:
(3, 6012), (5, 6096), (6, 6123), (Start: 7 @6165 has 127 MA's),

Gene: Daffodil_26 Start: 8097, Stop: 8249, Start Num: 7
Candidate Starts for Daffodil_26:
(2, 7947), (4, 7986), (Start: 7 @8097 has 127 MA's),

Gene: Darko_23 Start: 7959, Stop: 8111, Start Num: 7
Candidate Starts for Darko_23:

(2, 7809), (4, 7848), (Start: 7 @7959 has 127 MA's),

Gene: Delilah_24 Start: 8097, Stop: 8249, Start Num: 7

Candidate Starts for Delilah_24:

(2, 7947), (4, 7986), (Start: 7 @8097 has 127 MA's),

Gene: Derek_24 Start: 6980, Stop: 7132, Start Num: 7

Candidate Starts for Derek_24:

(2, 6830), (4, 6869), (Start: 7 @6980 has 127 MA's),

Gene: DrPhinkDaddy_24 Start: 8097, Stop: 8249, Start Num: 7

Candidate Starts for DrPhinkDaddy_24:

(2, 7947), (4, 7986), (Start: 7 @8097 has 127 MA's),

Gene: EasyJones_23 Start: 6721, Stop: 6873, Start Num: 7

Candidate Starts for EasyJones_23:

(1, 6541), (5, 6652), (6, 6679), (Start: 7 @6721 has 127 MA's),

Gene: EggyFarm_28 Start: 9083, Stop: 9235, Start Num: 7

Candidate Starts for EggyFarm_28:

(5, 9014), (6, 9041), (Start: 7 @9083 has 127 MA's),

Gene: EmToTheThree_27 Start: 9511, Stop: 9663, Start Num: 7

Candidate Starts for EmToTheThree_27:

(2, 9361), (4, 9400), (Start: 7 @9511 has 127 MA's),

Gene: EmmaElysia_22 Start: 6736, Stop: 6888, Start Num: 7

Candidate Starts for EmmaElysia_22:

(1, 6556), (5, 6667), (6, 6694), (Start: 7 @6736 has 127 MA's),

Gene: Erdmann_25 Start: 8097, Stop: 8249, Start Num: 7

Candidate Starts for Erdmann_25:

(2, 7947), (4, 7986), (Start: 7 @8097 has 127 MA's),

Gene: Essence_22 Start: 6745, Stop: 6897, Start Num: 7

Candidate Starts for Essence_22:

(5, 6676), (6, 6703), (Start: 7 @6745 has 127 MA's),

Gene: Ewok_24 Start: 8097, Stop: 8249, Start Num: 7

Candidate Starts for Ewok_24:

(2, 7947), (4, 7986), (Start: 7 @8097 has 127 MA's),

Gene: Flabslab_25 Start: 8010, Stop: 8168, Start Num: 7

Candidate Starts for Flabslab_25:

(1, 7830), (5, 7941), (6, 7968), (Start: 7 @8010 has 127 MA's),

Gene: Fludd_23 Start: 6966, Stop: 7118, Start Num: 7

Candidate Starts for Fludd_23:

(2, 6816), (4, 6855), (Start: 7 @6966 has 127 MA's),

Gene: FoxtrotP1_24 Start: 8409, Stop: 8561, Start Num: 7

Candidate Starts for FoxtrotP1_24:

(1, 8229), (5, 8340), (6, 8367), (Start: 7 @8409 has 127 MA's),

Gene: FrayBell_30 Start: 9677, Stop: 9829, Start Num: 7
Candidate Starts for FrayBell_30:
(Start: 7 @9677 has 127 MA's),

Gene: FudgeTart_25 Start: 8097, Stop: 8249, Start Num: 7
Candidate Starts for FudgeTart_25:
(2, 7947), (4, 7986), (Start: 7 @8097 has 127 MA's),

Gene: Gabriel_24 Start: 6980, Stop: 7132, Start Num: 7
Candidate Starts for Gabriel_24:
(2, 6830), (4, 6869), (Start: 7 @6980 has 127 MA's),

Gene: Gamgam_23 Start: 7023, Stop: 7175, Start Num: 7
Candidate Starts for Gamgam_23:
(2, 6873), (4, 6912), (Start: 7 @7023 has 127 MA's),

Gene: Gizmo_26 Start: 8097, Stop: 8249, Start Num: 7
Candidate Starts for Gizmo_26:
(2, 7947), (4, 7986), (Start: 7 @8097 has 127 MA's),

Gene: Grasshills_28 Start: 9083, Stop: 9235, Start Num: 7
Candidate Starts for Grasshills_28:
(5, 9014), (6, 9041), (Start: 7 @9083 has 127 MA's),

Gene: Guwapp_23 Start: 6980, Stop: 7132, Start Num: 7
Candidate Starts for Guwapp_23:
(2, 6830), (4, 6869), (Start: 7 @6980 has 127 MA's),

Gene: HyRo_22 Start: 7746, Stop: 7904, Start Num: 7
Candidate Starts for HyRo_22:
(1, 7566), (5, 7677), (6, 7704), (Start: 7 @7746 has 127 MA's),

Gene: IkeLoa_19 Start: 6839, Stop: 6991, Start Num: 7
Candidate Starts for IkeLoa_19:
(5, 6770), (6, 6797), (Start: 7 @6839 has 127 MA's),

Gene: InterFolia_30 Start: 9674, Stop: 9826, Start Num: 7
Candidate Starts for InterFolia_30:
(Start: 7 @9674 has 127 MA's),

Gene: Iota_21 Start: 7638, Stop: 7790, Start Num: 7
Candidate Starts for Iota_21:
(5, 7569), (6, 7596), (Start: 7 @7638 has 127 MA's),

Gene: Izajani_25 Start: 8097, Stop: 8249, Start Num: 7
Candidate Starts for Izajani_25:
(2, 7947), (4, 7986), (Start: 7 @8097 has 127 MA's),

Gene: JPickles_22 Start: 6740, Stop: 6892, Start Num: 7
Candidate Starts for JPickles_22:
(1, 6560), (5, 6671), (6, 6698), (Start: 7 @6740 has 127 MA's),

Gene: Janiyra_23 Start: 7002, Stop: 7154, Start Num: 7
Candidate Starts for Janiyra_23:
(2, 6852), (4, 6891), (Start: 7 @7002 has 127 MA's),

Gene: Jaygup_23 Start: 7019, Stop: 7171, Start Num: 7
Candidate Starts for Jaygup_23:
(2, 6869), (4, 6908), (Start: 7 @7019 has 127 MA's),

Gene: Jedediah_24 Start: 7023, Stop: 7175, Start Num: 7
Candidate Starts for Jedediah_24:
(2, 6873), (4, 6912), (Start: 7 @7023 has 127 MA's),

Gene: Jemmno_23 Start: 7023, Stop: 7175, Start Num: 7
Candidate Starts for Jemmno_23:
(2, 6873), (4, 6912), (Start: 7 @7023 has 127 MA's),

Gene: Jessibeth14_23 Start: 7823, Stop: 7975, Start Num: 7
Candidate Starts for Jessibeth14_23:
(5, 7754), (6, 7781), (Start: 7 @7823 has 127 MA's),

Gene: JustHall_23 Start: 7979, Stop: 8137, Start Num: 7
Candidate Starts for JustHall_23:
(2, 7829), (4, 7868), (Start: 7 @7979 has 127 MA's),

Gene: Kamryn_23 Start: 7347, Stop: 7499, Start Num: 7
Candidate Starts for Kamryn_23:
(2, 7197), (4, 7236), (Start: 7 @7347 has 127 MA's),

Gene: Kboogie_24 Start: 7021, Stop: 7173, Start Num: 7
Candidate Starts for Kboogie_24:
(2, 6871), (4, 6910), (Start: 7 @7021 has 127 MA's),

Gene: Khaleesi_23 Start: 7850, Stop: 8002, Start Num: 7
Candidate Starts for Khaleesi_23:
(1, 7670), (5, 7781), (6, 7808), (Start: 7 @7850 has 127 MA's),

Gene: Koguma_20 Start: 6308, Stop: 6460, Start Num: 7
Candidate Starts for Koguma_20:
(5, 6239), (6, 6266), (Start: 7 @6308 has 127 MA's),

Gene: Latch_23 Start: 7023, Stop: 7175, Start Num: 7
Candidate Starts for Latch_23:
(2, 6873), (4, 6912), (Start: 7 @7023 has 127 MA's),

Gene: LifeSavor_24 Start: 7019, Stop: 7171, Start Num: 7
Candidate Starts for LifeSavor_24:
(2, 6869), (4, 6908), (Start: 7 @7019 has 127 MA's),

Gene: Loanshark_24 Start: 8097, Stop: 8249, Start Num: 7
Candidate Starts for Loanshark_24:
(2, 7947), (4, 7986), (Start: 7 @8097 has 127 MA's),

Gene: Maby2021_25 Start: 8097, Stop: 8249, Start Num: 7

Candidate Starts for Maby2021_25:
(2, 7947), (4, 7986), (Start: 7 @8097 has 127 MA's),

Gene: Mangeria_27 Start: 8632, Stop: 8784, Start Num: 7
Candidate Starts for Mangeria_27:
(2, 8482), (4, 8521), (Start: 7 @8632 has 127 MA's),

Gene: McGee_23 Start: 6738, Stop: 6890, Start Num: 7
Candidate Starts for McGee_23:
(1, 6558), (5, 6669), (6, 6696), (Start: 7 @6738 has 127 MA's),

Gene: McWolfish_23 Start: 7850, Stop: 8002, Start Num: 7
Candidate Starts for McWolfish_23:
(1, 7670), (5, 7781), (6, 7808), (Start: 7 @7850 has 127 MA's),

Gene: Megamind_24 Start: 8097, Stop: 8249, Start Num: 7
Candidate Starts for Megamind_24:
(2, 7947), (4, 7986), (Start: 7 @8097 has 127 MA's),

Gene: Melpomini_23 Start: 6963, Stop: 7115, Start Num: 7
Candidate Starts for Melpomini_23:
(2, 6813), (4, 6852), (Start: 7 @6963 has 127 MA's),

Gene: Morizzled23_23 Start: 6963, Stop: 7115, Start Num: 7
Candidate Starts for Morizzled23_23:
(2, 6813), (4, 6852), (Start: 7 @6963 has 127 MA's),

Gene: Naija_23 Start: 7023, Stop: 7175, Start Num: 7
Candidate Starts for Naija_23:
(2, 6873), (4, 6912), (Start: 7 @7023 has 127 MA's),

Gene: Napoleon13_23 Start: 6982, Stop: 7134, Start Num: 7
Candidate Starts for Napoleon13_23:
(2, 6832), (4, 6871), (Start: 7 @6982 has 127 MA's),

Gene: Naval22_26 Start: 8146, Stop: 8298, Start Num: 7
Candidate Starts for Naval22_26:
(5, 8077), (6, 8104), (Start: 7 @8146 has 127 MA's),

Gene: NedWong_25 Start: 8097, Stop: 8249, Start Num: 7
Candidate Starts for NedWong_25:
(2, 7947), (4, 7986), (Start: 7 @8097 has 127 MA's),

Gene: Ngannou_22 Start: 6719, Stop: 6871, Start Num: 7
Candidate Starts for Ngannou_22:
(1, 6539), (5, 6650), (6, 6677), (Start: 7 @6719 has 127 MA's),

Gene: Nidhogg_25 Start: 8173, Stop: 8325, Start Num: 7
Candidate Starts for Nidhogg_25:
(1, 7993), (5, 8104), (6, 8131), (Start: 7 @8173 has 127 MA's),

Gene: NoodleTree_22 Start: 7040, Stop: 7192, Start Num: 7
Candidate Starts for NoodleTree_22:

(5, 6971), (6, 6998), (Start: 7 @7040 has 127 MA's),

Gene: Norm_24 Start: 8097, Stop: 8249, Start Num: 7

Candidate Starts for Norm_24:

(2, 7947), (4, 7986), (Start: 7 @8097 has 127 MA's),

Gene: NuevoMundo_27 Start: 9148, Stop: 9300, Start Num: 7

Candidate Starts for NuevoMundo_27:

(5, 9079), (6, 9106), (Start: 7 @9148 has 127 MA's),

Gene: Patter_23 Start: 7040, Stop: 7192, Start Num: 7

Candidate Starts for Patter_23:

(2, 6890), (4, 6929), (Start: 7 @7040 has 127 MA's),

Gene: Phlegm_25 Start: 7023, Stop: 7175, Start Num: 7

Candidate Starts for Phlegm_25:

(2, 6873), (4, 6912), (Start: 7 @7023 has 127 MA's),

Gene: Phox_23 Start: 8255, Stop: 8407, Start Num: 7

Candidate Starts for Phox_23:

(1, 8075), (5, 8186), (6, 8213), (Start: 7 @8255 has 127 MA's),

Gene: Phusco_23 Start: 7019, Stop: 7171, Start Num: 7

Candidate Starts for Phusco_23:

(2, 6869), (4, 6908), (Start: 7 @7019 has 127 MA's),

Gene: Pier_25 Start: 7711, Stop: 7863, Start Num: 7

Candidate Starts for Pier_25:

(5, 7642), (6, 7669), (Start: 7 @7711 has 127 MA's),

Gene: Pinkcreek_16 Start: 5934, Stop: 6092, Start Num: 7

Candidate Starts for Pinkcreek_16:

(1, 5754), (5, 5865), (6, 5892), (Start: 7 @5934 has 127 MA's),

Gene: Pio_27 Start: 8955, Stop: 9107, Start Num: 7

Candidate Starts for Pio_27:

(2, 8805), (4, 8844), (Start: 7 @8955 has 127 MA's),

Gene: Pivoine_23 Start: 7023, Stop: 7175, Start Num: 7

Candidate Starts for Pivoine_23:

(2, 6873), (4, 6912), (Start: 7 @7023 has 127 MA's),

Gene: Pleione_26 Start: 8097, Stop: 8249, Start Num: 7

Candidate Starts for Pleione_26:

(2, 7947), (4, 7986), (Start: 7 @8097 has 127 MA's),

Gene: PurduePete_23 Start: 7823, Stop: 7975, Start Num: 7

Candidate Starts for PurduePete_23:

(5, 7754), (6, 7781), (Start: 7 @7823 has 127 MA's),

Gene: QBert_22 Start: 8255, Stop: 8407, Start Num: 7

Candidate Starts for QBert_22:

(1, 8075), (5, 8186), (6, 8213), (Start: 7 @8255 has 127 MA's),

Gene: Quasimodo_23 Start: 7983, Stop: 8135, Start Num: 7
Candidate Starts for Quasimodo_23:
(2, 7833), (4, 7872), (Start: 7 @7983 has 127 MA's),

Gene: Rabinovish_23 Start: 8543, Stop: 8695, Start Num: 7
Candidate Starts for Rabinovish_23:
(1, 8363), (5, 8474), (6, 8501), (Start: 7 @8543 has 127 MA's),

Gene: Rahel_23 Start: 7019, Stop: 7171, Start Num: 7
Candidate Starts for Rahel_23:
(2, 6869), (4, 6908), (Start: 7 @7019 has 127 MA's),

Gene: RoMag_18 Start: 6790, Stop: 6942, Start Num: 7
Candidate Starts for RoMag_18:
(5, 6721), (6, 6748), (Start: 7 @6790 has 127 MA's),

Gene: Ronan_19 Start: 5666, Stop: 5818, Start Num: 7
Candidate Starts for Ronan_19:
(1, 5486), (5, 5597), (6, 5624), (Start: 7 @5666 has 127 MA's),

Gene: Roots515_24 Start: 8096, Stop: 8248, Start Num: 7
Candidate Starts for Roots515_24:
(2, 7946), (4, 7985), (Start: 7 @8096 has 127 MA's),

Gene: Salacia_26 Start: 8097, Stop: 8249, Start Num: 7
Candidate Starts for Salacia_26:
(2, 7947), (4, 7986), (Start: 7 @8097 has 127 MA's),

Gene: Sauce_25 Start: 8218, Stop: 8370, Start Num: 7
Candidate Starts for Sauce_25:
(1, 8038), (5, 8149), (6, 8176), (Start: 7 @8218 has 127 MA's),

Gene: Shaqnato_20 Start: 6671, Stop: 6823, Start Num: 7
Candidate Starts for Shaqnato_20:
(1, 6491), (5, 6602), (6, 6629), (Start: 7 @6671 has 127 MA's), (8, 6779),

Gene: Shelob_26 Start: 8979, Stop: 9137, Start Num: 7
Candidate Starts for Shelob_26:
(1, 8799), (5, 8910), (6, 8937), (Start: 7 @8979 has 127 MA's),

Gene: ShiaLabeouf_23 Start: 7019, Stop: 7171, Start Num: 7
Candidate Starts for ShiaLabeouf_23:
(2, 6869), (4, 6908), (Start: 7 @7019 has 127 MA's),

Gene: Shnickers_23 Start: 7019, Stop: 7171, Start Num: 7
Candidate Starts for Shnickers_23:
(2, 6869), (4, 6908), (Start: 7 @7019 has 127 MA's),

Gene: Shrimp_24 Start: 8101, Stop: 8253, Start Num: 7
Candidate Starts for Shrimp_24:
(2, 7951), (4, 7990), (Start: 7 @8101 has 127 MA's),

Gene: SilverDipper_24 Start: 7023, Stop: 7175, Start Num: 7
Candidate Starts for SilverDipper_24:
(2, 6873), (4, 6912), (Start: 7 @7023 has 127 MA's),

Gene: SmallFry_23 Start: 7019, Stop: 7171, Start Num: 7
Candidate Starts for SmallFry_23:
(2, 6869), (4, 6908), (Start: 7 @7019 has 127 MA's),

Gene: Specks_28 Start: 8857, Stop: 9009, Start Num: 7
Candidate Starts for Specks_28:
(2, 8707), (4, 8746), (Start: 7 @8857 has 127 MA's),

Gene: Sprinklers_24 Start: 7580, Stop: 7732, Start Num: 7
Candidate Starts for Sprinklers_24:
(1, 7400), (5, 7511), (6, 7538), (Start: 7 @7580 has 127 MA's),

Gene: SrishMeg2525_23 Start: 7823, Stop: 7975, Start Num: 7
Candidate Starts for SrishMeg2525_23:
(5, 7754), (6, 7781), (Start: 7 @7823 has 127 MA's),

Gene: Stubby_22 Start: 7357, Stop: 7515, Start Num: 7
Candidate Starts for Stubby_22:
(1, 7177), (5, 7288), (6, 7315), (Start: 7 @7357 has 127 MA's),

Gene: StubbySaigey_23 Start: 6740, Stop: 6892, Start Num: 7
Candidate Starts for StubbySaigey_23:
(1, 6560), (5, 6671), (6, 6698), (Start: 7 @6740 has 127 MA's),

Gene: Teardrop_23 Start: 7019, Stop: 7171, Start Num: 7
Candidate Starts for Teardrop_23:
(2, 6869), (4, 6908), (Start: 7 @7019 has 127 MA's),

Gene: TinyTim_24 Start: 8097, Stop: 8249, Start Num: 7
Candidate Starts for TinyTim_24:
(2, 7947), (4, 7986), (Start: 7 @8097 has 127 MA's),

Gene: Tortoise16_22 Start: 7019, Stop: 7171, Start Num: 7
Candidate Starts for Tortoise16_22:
(2, 6869), (4, 6908), (Start: 7 @7019 has 127 MA's),

Gene: Trinitium_23 Start: 6980, Stop: 7132, Start Num: 7
Candidate Starts for Trinitium_23:
(2, 6830), (4, 6869), (Start: 7 @6980 has 127 MA's),

Gene: Turret_22 Start: 6719, Stop: 6871, Start Num: 7
Candidate Starts for Turret_22:
(1, 6539), (5, 6650), (6, 6677), (Start: 7 @6719 has 127 MA's),

Gene: ValleyTerrace_23 Start: 7023, Stop: 7175, Start Num: 7
Candidate Starts for ValleyTerrace_23:
(2, 6873), (4, 6912), (Start: 7 @7023 has 127 MA's),

Gene: Wally_23 Start: 6984, Stop: 7136, Start Num: 7

Candidate Starts for Wally_23:
(2, 6834), (4, 6873), (Start: 7 @6984 has 127 MA's),

Gene: Yassified_21 Start: 6743, Stop: 6895, Start Num: 7
Candidate Starts for Yassified_21:
(1, 6563), (5, 6674), (6, 6701), (Start: 7 @6743 has 127 MA's),

Gene: YemiJoy2021_25 Start: 8097, Stop: 8249, Start Num: 7
Candidate Starts for YemiJoy2021_25:
(2, 7947), (4, 7986), (Start: 7 @8097 has 127 MA's),

Gene: YoungMoneyMata_23 Start: 6753, Stop: 6905, Start Num: 7
Candidate Starts for YoungMoneyMata_23:
(5, 6684), (6, 6711), (Start: 7 @6753 has 127 MA's),

Gene: Yucca_24 Start: 8019, Stop: 8171, Start Num: 7
Candidate Starts for Yucca_24:
(2, 7869), (4, 7908), (Start: 7 @8019 has 127 MA's),

Gene: Zalkecks_26 Start: 8097, Stop: 8249, Start Num: 7
Candidate Starts for Zalkecks_26:
(2, 7947), (4, 7986), (Start: 7 @8097 has 127 MA's),