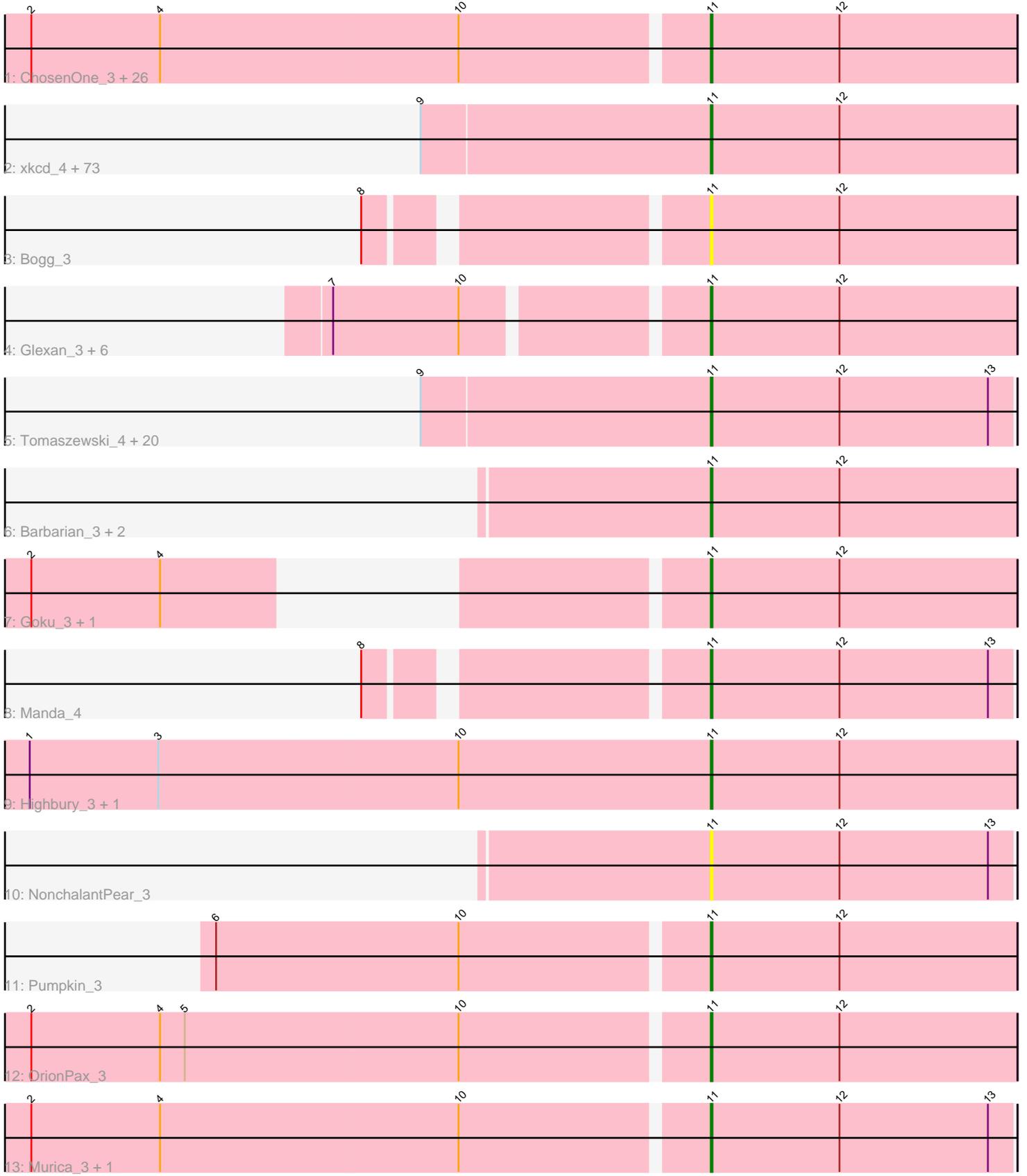


Pham 290928



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 290928 Report

This analysis was run 03/28/26 on database version 641.

Pham number 290928 has 143 members, 15 are drafts.

Phages represented in each track:

- Track 1 : ChosenOne_3, Thimble_3, DoctorDiddles_3, Moldemort_3, Bench_3, MadamMonkfish_3, NoSleep_3, Cjw1_2, Elite2014_3, 244_3, Hopey_3, Elph10_3, Czyszczon1_3, Thresher_3, Easy2Say_3, Simpliphy_3, Maxxinista_3, RiverMonster_2, PaddyBaddy_3, Phrux_2, Holt_3, HanKaySha_3, Dumbo_2, Filch_3, Lilpickle_3, Stark_3, Ukulele_2
- Track 2 : xkcd_4, Brewer_4, BaboJay_4, Marshmallow_4, Paperbeatsrock_4, Rimmer_4, Quallification_4, Wiggin_4, Buck_4, Cactus_4, Pharsalus_4, FairyPath_4, Tuco_4, Kanye_4, IHOP_4, Phaja_4, Adnama_4, Murphy_3, Gage_4, NelitzaMV_4, BilboSwaggins_4, Myrale_4, Henry_4, StolenFromERC_4, Rakim_4, Lilac_4, StormChicken_4, BigBubba_4, BadStone_3, TBrady12_4, Miniwave_4, ChotaBhai_4, Icee_4, TeamEdward_4, ABCat_3, CrystalP_4, Tarkin_4, Kostya_4, StellaBean_4, GoldenSpark_4, GooberAzure_4, Inca_4, Nimrod_4, Bask21_4, Gemini_4, Mindy_4, ShamWow_4, SophKB_4, Kimchi_4, Stank_4, MollyToe_4, Toto_4, Petra64142_4, Porky_3, Argent26_4, Goldilocks_4, JeTaime_4, TeardropMSU_3, DrDrey_4, Cookies_4, Teaspoon_4, YassJohnny_4, Amao_4, ShereKhan_4, Pat3_4, Lilizi_4, Greep_4, Xandras_4, Dusk_4, Emmina_4, Command613_4, Hoonter_4, SirDuracell_4, AmericanBeauty_4
- Track 3 : Bogg_3
- Track 4 : Glexan_3, Flypotenuse_3, Balomoji_3, Gator_3, Sotrice96_3, Harella_3, Daikon_2
- Track 5 : Tomaszewski_4, FoghornLeghorn_4, Sassay_4, Mosby_4, Ptowny_4, Phaux_3, Palpatine_4, MPhalcon_4, Bruin_4, FireRed_4, Becksu_4, Policronamos_4, Misfit_4, BugsBunny_4, PhatBacter_4, Contagion_4, MISSy_4, Nala_4, Willez_4, Terminus_4, Youngblood_4
- Track 6 : Barbarian_3, Traaww1_3, Asriel_3
- Track 7 : Goku_3, Eureka_2
- Track 8 : Manda_4
- Track 9 : Highbury_3, Saints25_3
- Track 10 : NonchalantPear_3
- Track 11 : Pumpkin_3
- Track 12 : OrionPax_3
- Track 13 : Murica_3, HufflyPuff_3

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

The start number called the most often in the published annotations is 11, it was called in 128 of the 128 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 244_3, ABCat_3, Adnama_4, Amao_4, AmericanBeauty_4, Argent26_4, Asriel_3, BaboJay_4, BadStone_3, Balomoji_3, Barbarian_3, Bask21_4, Becksu_4, Bench_3, BigBubba_4, BilboSwaggins_4, Bogg_3, Brewer_4, Bruin_4, Buck_4, BugsBunny_4, Cactus_4, ChosenOne_3, ChotaBhai_4, Cjw1_2, Command613_4, Contagion_4, Cookies_4, CrystalP_4, Czyszczonek_3, Daikon_2, DoctorDiddles_3, DrDrey_4, Dumbo_2, Dusk_4, Easy2Say_3, Elite2014_3, Elph10_3, Emmina_4, Eureka_2, FairyPath_4, Filch_3, FireRed_4, Flypotenuse_3, FoghornLeghorn_4, Gage_4, Gator_3, Gemini_4, Glexan_3, Goku_3, GoldenSpark_4, Goldilocks_4, GooberAzure_4, Greep_4, HanKaySha_3, Harella_3, Henry_4, Highbury_3, Holt_3, Hoonter_4, Hopey_3, HuffyPuff_3, IHOP_4, Icee_4, Inca_4, JeTaime_4, Kanye_4, Kimchi_4, Kostya_4, Lilac_4, Lilizi_4, Lilpickle_3, MISSy_4, MPhalcon_4, MadamMonkfish_3, Manda_4, Marshmallow_4, Maxxinista_3, Mindy_4, Miniwave_4, Misfit_4, Moldemort_3, MollyToe_4, Mosby_4, Murica_3, Murphy_3, Myrale_4, Nala_4, NelitzaMV_4, Nimrod_4, NoSleep_3, NonchalantPear_3, OrionPax_3, PaddyBaddy_3, Palpatine_4, Paperbeatsrock_4, Pat3_4, Petra64142_4, Phaja_4, Pharsalus_4, PhatBacter_4, Phaux_3, Phrux_2, Policronamos_4, Porky_3, Ptowny_4, Pumpkin_3, Quallification_4, Rakim_4, Rimmer_4, RiverMonster_2, Saints25_3, Sassay_4, ShamWow_4, ShereKhan_4, Simpliphy_3, SirDuracell_4, SophKB_4, Sotrice96_3, Stank_4, Stark_3, StellaBean_4, StolenFromERC_4, StormChicken_4, TBrady12_4, Tarkin_4, TeamEdward_4, TeardropMSU_3, Teaspoon_4, Terminus_4, Thimble_3, Thresher_3, Tomaszewski_4, Toto_4, Traaww1_3, Tuco_4, Ukulele_2, Wiggin_4, Willez_4, Xandras_4, YassJohnny_4, Youngblood_4, xkcd_4,

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 11:

- Found in 143 of 143 (100.0%) of genes in pham
- Manual Annotations of this start: 128 of 128
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 244_3 (E), ABCat_3 (E), Adnama_4 (E), Amao_4 (E), AmericanBeauty_4 (E), Argent26_4 (E), Asriel_3 (E), BaboJay_4 (E), BadStone_3 (E), Balomoji_3 (E), Barbarian_3 (E), Bask21_4 (E), Becksu_4 (E), Bench_3 (E), BigBubba_4 (E), BilboSwaggins_4 (E), Bogg_3 (E), Brewer_4 (E), Bruin_4 (E), Buck_4 (E), BugsBunny_4 (E), Cactus_4 (E), ChosenOne_3 (E), ChotaBhai_4 (E), Cjw1_2 (E), Command613_4 (E), Contagion_4 (E), Cookies_4 (E), CrystalP_4 (E), Czyszczonek_3 (E), Daikon_2 (E), DoctorDiddles_3 (E), DrDrey_4 (E), Dumbo_2 (E), Dusk_4 (E), Easy2Say_3 (E), Elite2014_3 (E), Elph10_3 (E), Emmina_4 (E), Eureka_2 (E), FairyPath_4 (E), Filch_3 (E), FireRed_4 (E), Flypotenuse_3 (E), FoghornLeghorn_4 (E), Gage_4 (E), Gator_3 (E), Gemini_4 (E), Glexan_3 (E), Goku_3 (E), GoldenSpark_4 (E), Goldilocks_4 (E), GooberAzure_4 (E), Greep_4 (E), HanKaySha_3 (E), Harella_3 (E), Henry_4 (E), Highbury_3 (E), Holt_3

(E), Hoonter_4 (E), Hopey_3 (E), HufflyPuff_3 (E), IHOP_4 (E), Icee_4 (E), Inca_4 (E), JeTaime_4 (E), Kanye_4 (E), Kimchi_4 (E), Kostya_4 (E), Lilac_4 (E), Lilizi_4 (E), Lilpickle_3 (E), MISSy_4 (E), MPhalcon_4 (E), MadamMonkfish_3 (E), Manda_4 (E), Marshmallow_4 (E), Maxxinista_3 (E), Mindy_4 (E), Miniwave_4 (E), Misfit_4 (E), Moldemort_3 (E), MollyToe_4 (E), Mosby_4 (E), Murica_3 (E), Murphy_3 (E), Myrale_4 (E), Nala_4 (E), NelitzaMV_4 (E), Nimrod_4 (E), NoSleep_3 (E), NonchalantPear_3 (E), OrionPax_3 (E), PaddyBaddy_3 (E), Palpatine_4 (E), Paperbeatsrock_4 (E), Pat3_4 (E), Petra64142_4 (E), Phaja_4 (E), Pharsalus_4 (E), PhatBacter_4 (E), Phaux_3 (E), Phrux_2 (E), Policronamos_4 (E), Porky_3 (E), Ptowny_4 (E), Pumpkin_3 (E), Quallification_4 (E), Rakim_4 (E), Rimmer_4 (E), RiverMonster_2 (E), Saints25_3 (E), Sassay_4 (E), ShamWow_4 (E), ShereKhan_4 (E), Simpliphy_3 (E), SirDuracell_4 (E), SophKB_4 (E), Sotrice96_3 (E), Stank_4 (E), Stark_3 (E), StellaBean_4 (E), StolenFromERC_4 (E), StormChicken_4 (E), TBrady12_4 (E), Tarkin_4 (E), TeamEdward_4 (E), TeardropMSU_3 (E), Teaspoon_4 (E), Terminus_4 (E), Thimble_3 (E), Thresher_3 (E), Tomaszewski_4 (E), Toto_4 (E), Traaww1_3 (E), Tuco_4 (E), Ukulele_2 (E), Wiggin_4 (E), Willez_4 (E), Xandras_4 (E), YassJohnny_4 (E), Youngblood_4 (E), xkcd_4 (E),

Summary by clusters:

There is one cluster represented in this pham: E

Info for manual annotations of cluster E:

•Start number 11 was manually annotated 128 times for cluster E.

Gene Information:

Gene: 244_3 Start: 557, Stop: 742, Start Num: 11

Candidate Starts for 244_3:

(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 128 MA's), (12, 635),

Gene: ABCat_3 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for ABCat_3:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Adnama_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Adnama_4:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Amao_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Amao_4:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: AmericanBeauty_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for AmericanBeauty_4:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Argent26_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Argent26_4:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Asriel_3 Start: 587, Stop: 772, Start Num: 11
Candidate Starts for Asriel_3:
(Start: 11 @587 has 128 MA's), (12, 665),

Gene: BaboJay_4 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for BaboJay_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: BadStone_3 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for BadStone_3:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Balomoji_3 Start: 557, Stop: 742, Start Num: 11
Candidate Starts for Balomoji_3:
(7, 347), (10, 422), (Start: 11 @557 has 128 MA's), (12, 635),

Gene: Barbarian_3 Start: 587, Stop: 772, Start Num: 11
Candidate Starts for Barbarian_3:
(Start: 11 @587 has 128 MA's), (12, 665),

Gene: Bask21_4 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for Bask21_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Becksu_4 Start: 601, Stop: 783, Start Num: 11
Candidate Starts for Becksu_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679), (13, 769),

Gene: Bench_3 Start: 557, Stop: 742, Start Num: 11
Candidate Starts for Bench_3:
(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 128 MA's), (12, 635),

Gene: BigBubba_4 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for BigBubba_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: BilboSwaggins_4 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for BilboSwaggins_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Bogg_3 Start: 616, Stop: 801, Start Num: 11
Candidate Starts for Bogg_3:
(8, 433), (Start: 11 @616 has 128 MA's), (12, 694),

Gene: Brewer_4 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for Brewer_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Bruin_4 Start: 601, Stop: 783, Start Num: 11
Candidate Starts for Bruin_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679), (13, 769),

Gene: Buck_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Buck_4:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: BugsBunny_4 Start: 601, Stop: 783, Start Num: 11

Candidate Starts for BugsBunny_4:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679), (13, 769),

Gene: Cactus_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Cactus_4:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: ChosenOne_3 Start: 557, Stop: 742, Start Num: 11

Candidate Starts for ChosenOne_3:

(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 128 MA's), (12, 635),

Gene: ChotaBhai_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for ChotaBhai_4:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Cjw1_2 Start: 566, Stop: 751, Start Num: 11

Candidate Starts for Cjw1_2:

(2, 164), (4, 242), (10, 422), (Start: 11 @566 has 128 MA's), (12, 644),

Gene: Command613_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Command613_4:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Contagion_4 Start: 601, Stop: 783, Start Num: 11

Candidate Starts for Contagion_4:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679), (13, 769),

Gene: Cookies_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Cookies_4:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: CrystalP_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for CrystalP_4:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Czyszczone1_3 Start: 557, Stop: 742, Start Num: 11

Candidate Starts for Czyszczone1_3:

(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 128 MA's), (12, 635),

Gene: Daikon_2 Start: 557, Stop: 742, Start Num: 11

Candidate Starts for Daikon_2:

(7, 347), (10, 422), (Start: 11 @557 has 128 MA's), (12, 635),

Gene: DoctorDiddles_3 Start: 557, Stop: 742, Start Num: 11

Candidate Starts for DoctorDiddles_3:

(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 128 MA's), (12, 635),

Gene: DrDrey_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for DrDrey_4:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Dumbo_2 Start: 557, Stop: 742, Start Num: 11

Candidate Starts for Dumbo_2:

(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 128 MA's), (12, 635),

Gene: Dusk_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Dusk_4:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Easy2Say_3 Start: 557, Stop: 742, Start Num: 11

Candidate Starts for Easy2Say_3:

(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 128 MA's), (12, 635),

Gene: Elite2014_3 Start: 557, Stop: 742, Start Num: 11

Candidate Starts for Elite2014_3:

(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 128 MA's), (12, 635),

Gene: Elph10_3 Start: 557, Stop: 742, Start Num: 11

Candidate Starts for Elph10_3:

(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 128 MA's), (12, 635),

Gene: Emmina_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Emmina_4:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Eureka_2 Start: 446, Stop: 631, Start Num: 11

Candidate Starts for Eureka_2:

(2, 155), (4, 233), (Start: 11 @446 has 128 MA's), (12, 524),

Gene: FairyPath_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for FairyPath_4:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Filch_3 Start: 557, Stop: 742, Start Num: 11

Candidate Starts for Filch_3:

(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 128 MA's), (12, 635),

Gene: FireRed_4 Start: 601, Stop: 783, Start Num: 11

Candidate Starts for FireRed_4:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679), (13, 769),

Gene: Flypotenuse_3 Start: 557, Stop: 742, Start Num: 11

Candidate Starts for Flypotenuse_3:

(7, 347), (10, 422), (Start: 11 @557 has 128 MA's), (12, 635),

Gene: FoghornLeghorn_4 Start: 601, Stop: 783, Start Num: 11

Candidate Starts for FoghornLeghorn_4:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679), (13, 769),

Gene: Gage_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Gage_4:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Gator_3 Start: 557, Stop: 742, Start Num: 11
Candidate Starts for Gator_3:
(7, 347), (10, 422), (Start: 11 @557 has 128 MA's), (12, 635),

Gene: Gemini_4 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for Gemini_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Glexan_3 Start: 557, Stop: 742, Start Num: 11
Candidate Starts for Glexan_3:
(7, 347), (10, 422), (Start: 11 @557 has 128 MA's), (12, 635),

Gene: Goku_3 Start: 446, Stop: 631, Start Num: 11
Candidate Starts for Goku_3:
(2, 155), (4, 233), (Start: 11 @446 has 128 MA's), (12, 524),

Gene: GoldenSpark_4 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for GoldenSpark_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Goldilocks_4 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for Goldilocks_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: GooberAzure_4 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for GooberAzure_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Greep_4 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for Greep_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: HanKaySha_3 Start: 557, Stop: 742, Start Num: 11
Candidate Starts for HanKaySha_3:
(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 128 MA's), (12, 635),

Gene: Harella_3 Start: 557, Stop: 742, Start Num: 11
Candidate Starts for Harella_3:
(7, 347), (10, 422), (Start: 11 @557 has 128 MA's), (12, 635),

Gene: Henry_4 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for Henry_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Highbury_3 Start: 566, Stop: 751, Start Num: 11
Candidate Starts for Highbury_3:
(1, 155), (3, 233), (10, 413), (Start: 11 @566 has 128 MA's), (12, 644),

Gene: Holt_3 Start: 557, Stop: 742, Start Num: 11
Candidate Starts for Holt_3:
(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 128 MA's), (12, 635),

Gene: Hoonter_4 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for Hoonter_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Hokey_3 Start: 557, Stop: 742, Start Num: 11
Candidate Starts for Hokey_3:
(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 128 MA's), (12, 635),

Gene: HufflyPuff_3 Start: 557, Stop: 739, Start Num: 11
Candidate Starts for HufflyPuff_3:
(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 128 MA's), (12, 635), (13, 725),

Gene: IHOP_4 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for IHOP_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Icee_4 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for Icee_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Inca_4 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for Inca_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: JeTaime_4 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for JeTaime_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Kanye_4 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for Kanye_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Kimchi_4 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for Kimchi_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Kostya_4 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for Kostya_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Lilac_4 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for Lilac_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Lilizi_4 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for Lilizi_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Lilpickle_3 Start: 557, Stop: 742, Start Num: 11
Candidate Starts for Lilpickle_3:
(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 128 MA's), (12, 635),

Gene: MISSy_4 Start: 601, Stop: 783, Start Num: 11

Candidate Starts for MISSy_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679), (13, 769),

Gene: MPhalcon_4 Start: 601, Stop: 783, Start Num: 11
Candidate Starts for MPhalcon_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679), (13, 769),

Gene: MadamMonkfish_3 Start: 557, Stop: 742, Start Num: 11
Candidate Starts for MadamMonkfish_3:
(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 128 MA's), (12, 635),

Gene: Manda_4 Start: 616, Stop: 798, Start Num: 11
Candidate Starts for Manda_4:
(8, 433), (Start: 11 @616 has 128 MA's), (12, 694), (13, 784),

Gene: Marshmallow_4 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for Marshmallow_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Maxxinista_3 Start: 557, Stop: 742, Start Num: 11
Candidate Starts for Maxxinista_3:
(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 128 MA's), (12, 635),

Gene: Mindy_4 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for Mindy_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Miniwave_4 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for Miniwave_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Misfit_4 Start: 601, Stop: 783, Start Num: 11
Candidate Starts for Misfit_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679), (13, 769),

Gene: Moldemort_3 Start: 557, Stop: 742, Start Num: 11
Candidate Starts for Moldemort_3:
(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 128 MA's), (12, 635),

Gene: MollyToe_4 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for MollyToe_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Mosby_4 Start: 601, Stop: 783, Start Num: 11
Candidate Starts for Mosby_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679), (13, 769),

Gene: Murica_3 Start: 557, Stop: 739, Start Num: 11
Candidate Starts for Murica_3:
(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 128 MA's), (12, 635), (13, 725),

Gene: Murphy_3 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for Murphy_3:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Myrale_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Myrale_4:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Nala_4 Start: 601, Stop: 783, Start Num: 11

Candidate Starts for Nala_4:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679), (13, 769),

Gene: NelitzaMV_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for NelitzaMV_4:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Nimrod_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Nimrod_4:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: NoSleep_3 Start: 557, Stop: 742, Start Num: 11

Candidate Starts for NoSleep_3:

(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 128 MA's), (12, 635),

Gene: NonchalantPear_3 Start: 587, Stop: 769, Start Num: 11

Candidate Starts for NonchalantPear_3:

(Start: 11 @587 has 128 MA's), (12, 665), (13, 755),

Gene: OrionPax_3 Start: 557, Stop: 742, Start Num: 11

Candidate Starts for OrionPax_3:

(2, 155), (4, 233), (5, 248), (10, 413), (Start: 11 @557 has 128 MA's), (12, 635),

Gene: PaddyBaddy_3 Start: 557, Stop: 742, Start Num: 11

Candidate Starts for PaddyBaddy_3:

(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 128 MA's), (12, 635),

Gene: Palpatine_4 Start: 601, Stop: 783, Start Num: 11

Candidate Starts for Palpatine_4:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679), (13, 769),

Gene: Paperbeatsrock_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Paperbeatsrock_4:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Pat3_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Pat3_4:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Petra64142_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Petra64142_4:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Phaja_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Phaja_4:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Pharsalus_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Pharsalus_4:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: PhatBacter_4 Start: 601, Stop: 783, Start Num: 11

Candidate Starts for PhatBacter_4:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679), (13, 769),

Gene: Phaux_3 Start: 601, Stop: 783, Start Num: 11

Candidate Starts for Phaux_3:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679), (13, 769),

Gene: Phrux_2 Start: 557, Stop: 742, Start Num: 11

Candidate Starts for Phrux_2:

(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 128 MA's), (12, 635),

Gene: Policronamos_4 Start: 601, Stop: 783, Start Num: 11

Candidate Starts for Policronamos_4:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679), (13, 769),

Gene: Porky_3 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Porky_3:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Ptowny_4 Start: 601, Stop: 783, Start Num: 11

Candidate Starts for Ptowny_4:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679), (13, 769),

Gene: Pumpkin_3 Start: 558, Stop: 743, Start Num: 11

Candidate Starts for Pumpkin_3:

(6, 267), (10, 414), (Start: 11 @558 has 128 MA's), (12, 636),

Gene: Quallification_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Quallification_4:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Rakim_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Rakim_4:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Rimmer_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Rimmer_4:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: RiverMonster_2 Start: 557, Stop: 742, Start Num: 11

Candidate Starts for RiverMonster_2:

(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 128 MA's), (12, 635),

Gene: Saints25_3 Start: 566, Stop: 751, Start Num: 11

Candidate Starts for Saints25_3:

(1, 155), (3, 233), (10, 413), (Start: 11 @566 has 128 MA's), (12, 644),

Gene: Sassay_4 Start: 601, Stop: 783, Start Num: 11
Candidate Starts for Sassay_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679), (13, 769),

Gene: ShamWow_4 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for ShamWow_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: ShereKhan_4 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for ShereKhan_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Simpliphy_3 Start: 557, Stop: 742, Start Num: 11
Candidate Starts for Simpliphy_3:
(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 128 MA's), (12, 635),

Gene: SirDuracell_4 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for SirDuracell_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: SophKB_4 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for SophKB_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Sotrice96_3 Start: 557, Stop: 742, Start Num: 11
Candidate Starts for Sotrice96_3:
(7, 347), (10, 422), (Start: 11 @557 has 128 MA's), (12, 635),

Gene: Stank_4 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for Stank_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Stark_3 Start: 557, Stop: 742, Start Num: 11
Candidate Starts for Stark_3:
(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 128 MA's), (12, 635),

Gene: StellaBean_4 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for StellaBean_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: StolenFromERC_4 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for StolenFromERC_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: StormChicken_4 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for StormChicken_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: TBrady12_4 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for TBrady12_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Tarkin_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Tarkin_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: TeamEdward_4 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for TeamEdward_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: TeardropMSU_3 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for TeardropMSU_3:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Teaspoon_4 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for Teaspoon_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Terminus_4 Start: 601, Stop: 783, Start Num: 11
Candidate Starts for Terminus_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679), (13, 769),

Gene: Thimble_3 Start: 557, Stop: 742, Start Num: 11
Candidate Starts for Thimble_3:
(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 128 MA's), (12, 635),

Gene: Thresher_3 Start: 557, Stop: 742, Start Num: 11
Candidate Starts for Thresher_3:
(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 128 MA's), (12, 635),

Gene: Tomaszewski_4 Start: 601, Stop: 783, Start Num: 11
Candidate Starts for Tomaszewski_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679), (13, 769),

Gene: Toto_4 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for Toto_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Traaww1_3 Start: 587, Stop: 772, Start Num: 11
Candidate Starts for Traaww1_3:
(Start: 11 @587 has 128 MA's), (12, 665),

Gene: Tuco_4 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for Tuco_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Ukulele_2 Start: 557, Stop: 742, Start Num: 11
Candidate Starts for Ukulele_2:
(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 128 MA's), (12, 635),

Gene: Wiggin_4 Start: 601, Stop: 786, Start Num: 11
Candidate Starts for Wiggin_4:
(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Willez_4 Start: 601, Stop: 783, Start Num: 11
Candidate Starts for Willez_4:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679), (13, 769),

Gene: Xandras_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for Xandras_4:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: YassJohnny_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for YassJohnny_4:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),

Gene: Youngblood_4 Start: 601, Stop: 783, Start Num: 11

Candidate Starts for Youngblood_4:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679), (13, 769),

Gene: xkcd_4 Start: 601, Stop: 786, Start Num: 11

Candidate Starts for xkcd_4:

(9, 427), (Start: 11 @601 has 128 MA's), (12, 679),