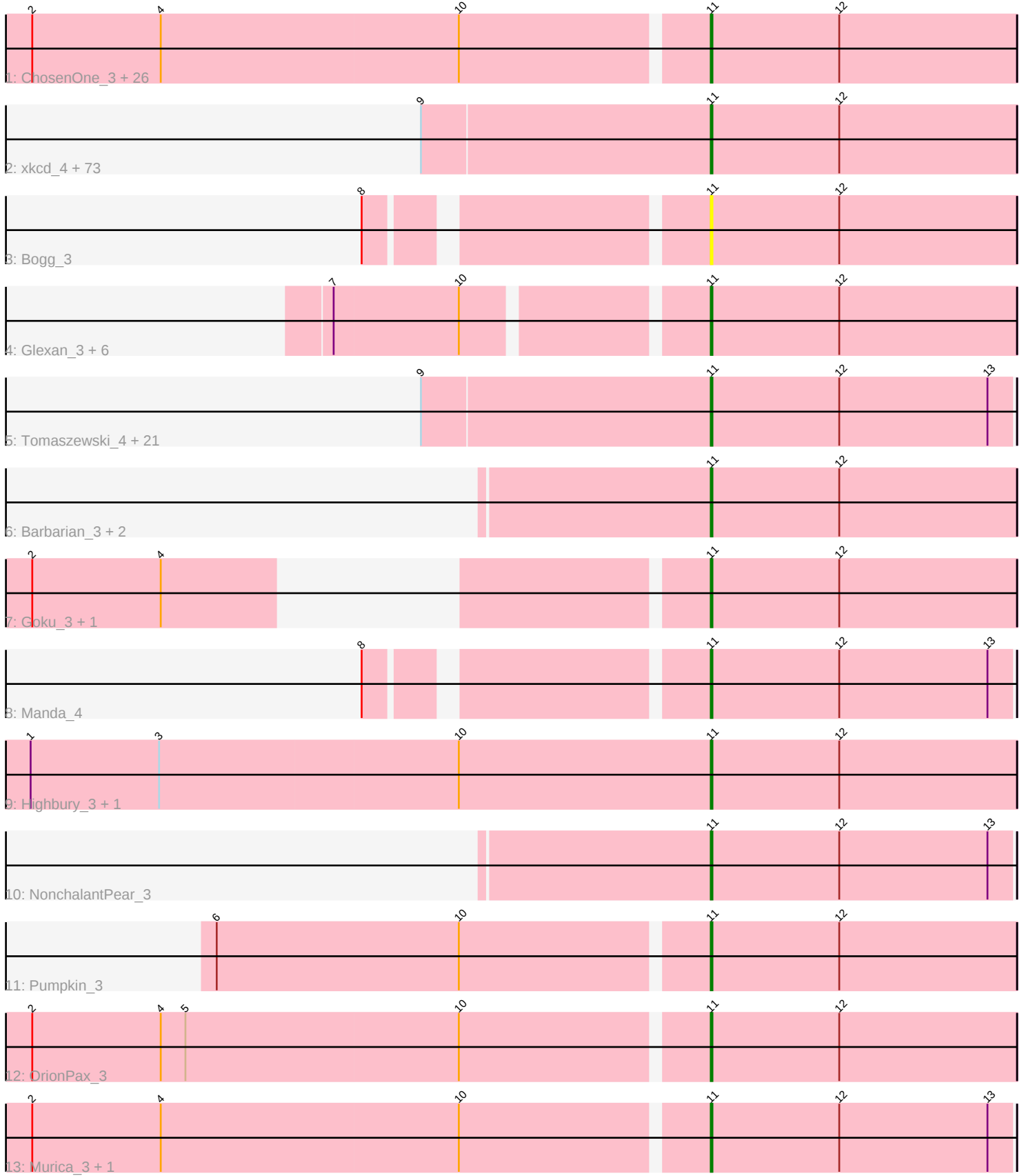


Pham 317269



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 317269 Report

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

Pham number 317269 has 144 members, 11 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, Czystczon1_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, Qualification_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, Wiggin_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, Palpatine_4, FoghornLeghorn_4, Sassay_4, Mosby_4, Ptowny_4, Phaux_3, MPhalcon_4, Bruin_4, FireRed_4, Becksu_4, Policronamos_4, Misfit_4, BugsBunny_4, PhatBacter_4, Liveloughbron_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, HuffyPuff_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 133 of the 133 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, Liveloughbron_4, 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, Qualification_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 144 of 144 (100.0%) of genes in pham
- Manual Annotations of this start: 133 of 133
- 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), Liveloughbron_4 (E), MISSy_4 (E), MPhalcon_4 (E), MadamMonkfish_3 (E), Mandā_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), NelitzāMV_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), Qualification_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 133 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 133 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 133 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 133 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 133 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 133 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 133 MA's), (12, 679),

Gene: Asriel_3 Start: 587, Stop: 772, Start Num: 11
Candidate Starts for Asriel_3:
(Start: 11 @587 has 133 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 133 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 133 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 133 MA's), (12, 635),

Gene: Barbarian_3 Start: 587, Stop: 772, Start Num: 11
Candidate Starts for Barbarian_3:
(Start: 11 @587 has 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 MA's), (12, 679),

Gene: Hopey_3 Start: 557, Stop: 742, Start Num: 11

Candidate Starts for Hopey_3:

(2, 155), (4, 233), (10, 413), (Start: 11 @557 has 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 MA's), (12, 635),

Gene: Liveloughbron_4 Start: 601, Stop: 783, Start Num: 11
Candidate Starts for Liveloughbron_4:
(9, 427), (Start: 11 @601 has 133 MA's), (12, 679), (13, 769),

Gene: MISSy_4 Start: 601, Stop: 783, Start Num: 11
Candidate Starts for MISSy_4:
(9, 427), (Start: 11 @601 has 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 MA's), (12, 635),

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

Candidate Starts for NonchalantPear_3:

(Start: 11 @587 has 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 MA's), (12, 679),

Gene: Traaww1_3 Start: 587, Stop: 772, Start Num: 11

Candidate Starts for Traaww1_3:

(Start: 11 @587 has 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 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 133 MA's), (12, 679),