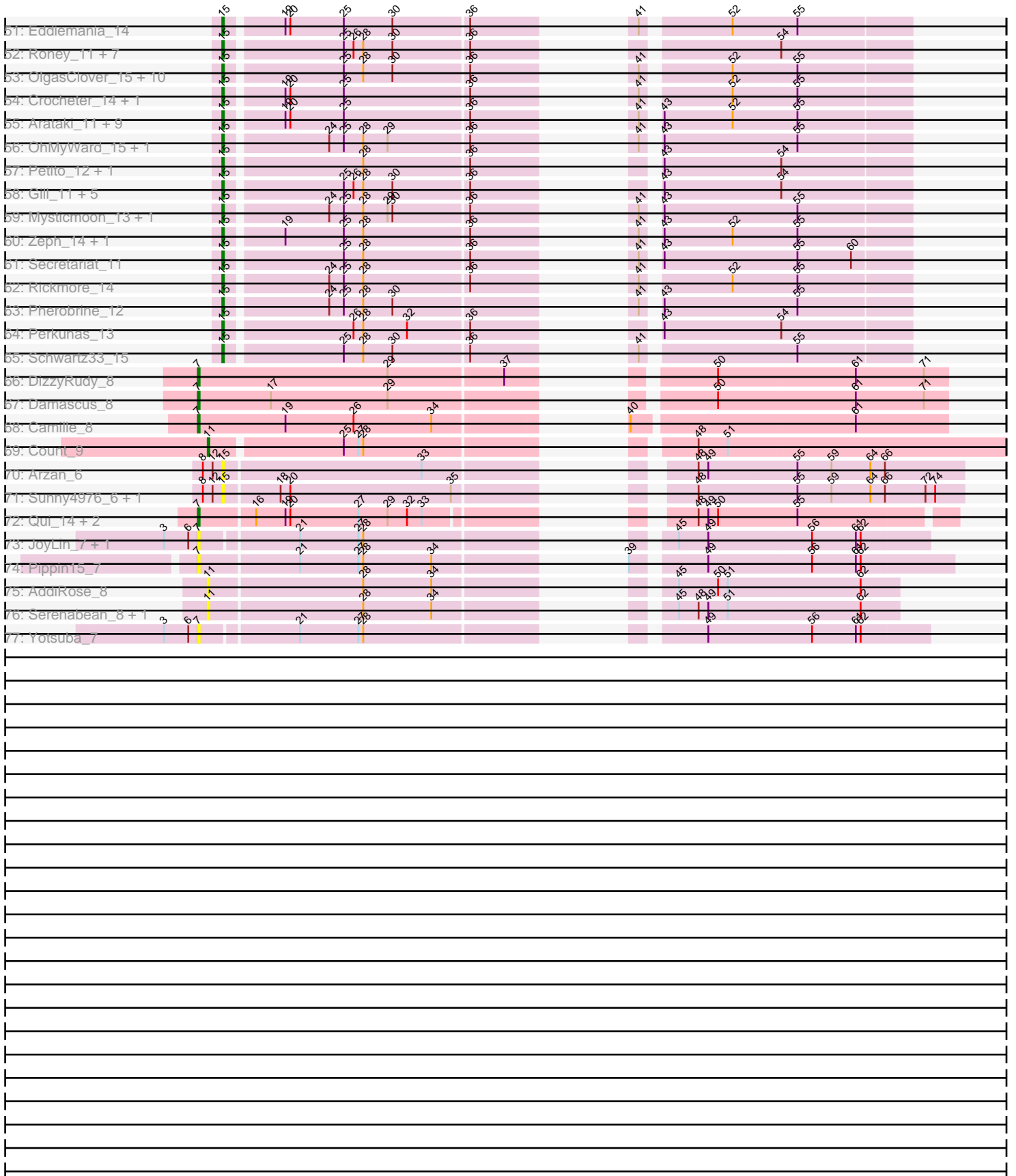


Pham 174562



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 174562 Report

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

Pham number 174562 has 192 members, 33 are drafts.

Phages represented in each track:

- Track 1 : Tribby_6, Kardesai_5, Dynamite_6, Mooshroom_6, Arcadia_6, Heisenberger_6, Nason_6, NapoleonB_6, Elsa_6
- Track 2 : KeaneyLin_5, Circum_6, JEGGS_6, Xenomorph_5, GoCrazy_5, Cheesy_6, BenitoAntonio_6, Correa_6, Mudcat_6
- Track 3 : Hankly_5
- Track 4 : Benllo_5
- Track 5 : Inked_6
- Track 6 : CastorTray_6, ScienceWizSam_6, Trustiboi_5, Breylor17_5
- Track 7 : Issa_5, DevitoJr_5, Darby_5
- Track 8 : ElephantMan_4, Niktson_4
- Track 9 : Tatanka_4, Synepsis_4
- Track 10 : Gordon_5
- Track 11 : CapnMurica_5, Tenno_6, MiniBagel_5
- Track 12 : AreFloNak_5, Nivinsha_5
- Track 13 : Nightmare_5
- Track 14 : Teacup_5
- Track 15 : Brunswick_5
- Track 16 : LilHuddy_5, Shepard_5
- Track 17 : Tokki_5
- Track 18 : Giantsbane_5
- Track 19 : Phaby_5
- Track 20 : Loretta_5, Ingrid_5
- Track 21 : Caterpillar_6
- Track 22 : MediumFry_6
- Track 23 : Makai_5, Truckee_5
- Track 24 : BarbieDoll_6, Lewando_6, Renaldo_7
- Track 25 : Uzumaki_6, Phaila_6, Argan_5
- Track 26 : Zeina_6, GantcherGoblin_5
- Track 27 : Leathea_6
- Track 28 : TrixiePhattel_6
- Track 29 : Sloopyjoe_6, Djungelskog_6, Stayer_6, Egad_6, Shiba_6, Raunak_6, MrAaronian_6, StarLord_6, Linda_6, ProfFrink_6, DoctorPepper_6, Michelle_6, BronxBay_6
- Track 30 : Salk_6
- Track 31 : Sporto_5
- Track 32 : TieDye_5, TonyStarch_6, Esketit_6, Hoshi_6, FidgetOrca_6, Rima_6, Jaylociraptor_6, Indigenous_6, CherryBlossom_6, Meibysrarus_6,

Spectropatronm_6, Maya_6, Nam0_6

- Track 33 : GirlPower_5
- Track 34 : FrodoSwaggins_5, Popy_5, IceWarrior_6, DrGrey_5, Soshi_5, OlympicHelado_6
- Track 35 : Madamoto_6
- Track 36 : TaidaOne_6
- Track 37 : SheRa_5, Moozy_5, HotFries_4, Annihilus_5
- Track 38 : RavenPuff_4, PherryCruz_4
- Track 39 : GoblinVoyage_5, Doxi13_5
- Track 40 : RosaAsantewaa_5
- Track 41 : Scap1_5
- Track 42 : Bilo_5
- Track 43 : LibertyBell_5
- Track 44 : Regigigas_5, Miek_5, Thiqqums_5, CricKo_5, SendItCS_5, Rainydai_5, FromIndy_5
- Track 45 : Bing_5
- Track 46 : Kardashian_5
- Track 47 : ClubPenguin_4
- Track 48 : Poco6_014
- Track 49 : Pepy6_012
- Track 50 : Mossy_12
- Track 51 : Eddiemania_14
- Track 52 : Roney_11, Tanis_11, Capybara_11, NoPickles_11, Magel_11, Kerry_11, Gravy_11, Odesza_11
- Track 53 : OlgasClover_15, Nithya_15, Aflac_15, Jodelie19_15, BluerMoon_17, Figliar_15, Chikenjars_15, Duffington_15, TenaciousP_15, EndAve_15, AlainaMarie_15
- Track 54 : Crocheter_14, Untouchable_14
- Track 55 : Arataki_11, Kenosha_12, Nadmeg_15, Vardy_15, Gusicorn_17, Burley_15, Madvan_15, Runhaar_15, Phepper_15, ShaggyRogers_18
- Track 56 : OhMyWard_15, Hortihabitatio_15
- Track 57 : Petite_12, Conley_11
- Track 58 : Gill_11, FortCran_11, JulesRay_13, Artorias_11, Avazak_11, Captrips_11
- Track 59 : Mysticmoon_13, Fazel_12
- Track 60 : Zeph_14, Hydrus_14
- Track 61 : Secretariat_11
- Track 62 : Rickmore_14
- Track 63 : Pherobrine_12
- Track 64 : Perkunas_13
- Track 65 : Schwartz33_15
- Track 66 : DizzyRudy_8
- Track 67 : Damascus_8
- Track 68 : Camille_8
- Track 69 : Count_9
- Track 70 : Arzan_6
- Track 71 : Sunny4976_6, Jazzy4900_7
- Track 72 : Qui_14, Elver_13, Paella_14
- Track 73 : JoyLin_7, Eevee_7
- Track 74 : Pippin15_7
- Track 75 : AddiRose_8
- Track 76 : Serenabean_8, Daddyjeff_8
- Track 77 : Yotsuba_7

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

The start number called the most often in the published annotations is 15, it was called in 101 of the 159 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aflac_15, AlainaMarie_15, Annihilus_5, Arataki_11, Argan_5, Artorias_11, Arzan_6, Avazak_11, BarbieDoll_6, Bilo_5, Bing_5, BluerMoon_17, Burley_15, Captrips_11, Copybara_11, CherryBlossom_6, Chikenjars_15, ClubPenguin_4, Conley_11, CricKo_5, Crocheter_14, Doxi13_5, DrGrey_5, Duffington_15, Eddiemania_14, EndAve_15, Esketit_6, Fazel_12, FidgetOrca_6, Figliar_15, FortCran_11, FrodoSwaggins_5, FromIndy_5, GantcherGoblin_5, Giantsbane_5, Gill_11, GirlPower_5, GoblinVoyage_5, Gravy_11, Gusicorn_17, Hortihabitatio_15, Hoshi_6, HotFries_4, Hydrus_14, IceWarrior_6, Indigenous_6, Ingrid_5, Inked_6, Jaylociraptor_6, Jazzy4900_7, Jodelie19_15, JulesRay_13, Kardashian_5, Kenosha_12, Kerry_11, Leatheia_6, Lewando_6, LibertyBell_5, LilHuddy_5, Loretta_5, Madamato_6, Madvan_15, Magel_11, Makai_5, Maya_6, Meibysrarus_6, Miek_5, Moozy_5, Mossy_12, Mysticmoon_13, Nadmeg_15, Namu_6, Nithya_15, NoPickles_11, Odesza_11, OhMyWard_15, OlgasClover_15, OlympicHelado_6, Pepy6_012, Perkunas_13, Petite_12, Phaby_5, Phaila_6, Phepper_15, Pherobrine_12, PherryCruz_4, Poco6_014, Popy_5, Rainydai_5, RavenPuff_4, Regigigas_5, Renaldo_7, Rickmore_14, Rima_6, Roney_11, RosaAsantewaa_5, Runhaar_15, Scap1_5, Schwartz33_15, Secretariat_11, SendItCS_5, ShaggyRogers_18, SheRa_5, Shepard_5, Soshi_5, Spectropatronm_6, Sunny4976_6, TaidaOne_6, Tanis_11, TenaciousP_15, Thiqqums_5, TieDye_5, Tokki_5, TonyStarch_6, TrixiePhattel_6, Truckee_5, Untouchable_14, Uzumaki_6, Vardy_15, Zeina_6, Zeph_14,

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

-

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

- AddiRose_8, Arcadia_6, AreFloNak_5, BenitoAntonio_6, Benllo_5, Breylor17_5, BronxBay_6, Brunswick_5, Camille_8, CapnMurica_5, CastorTray_6, Caterpillar_6, Cheesy_6, Circum_6, Correa_6, Count_9, Daddyjeff_8, Damascus_8, Darby_5, DevitoJr_5, DizzyRudy_8, Djungelskog_6, DoctorPepper_6, Dynamite_6, Eevee_7, Egad_6, ElephantMan_4, Elsa_6, Elver_13, GoCrazy_5, Gordon_5, Hankly_5, Heisenberger_6, Issa_5, JEGGS_6, JoyLin_7, Kardesai_5, KeaneyLin_5, Linda_6, MediumFry_6, Michelle_6, MiniBagel_5, Mooshroom_6, MrAaronian_6, Mudcat_6, NapoleonB_6, Nason_6, Nightmare_5, Niktson_4, Nivinsha_5, Paella_14, Pippin15_7, ProfFrink_6, Qui_14, Raunak_6, Salk_6, ScienceWizSam_6, Serenabean_8, Shiba_6, Sloopyjoe_6, Sporto_5, StarLord_6, Stayer_6, Synepsis_4, Tatanka_4, Teacup_5, Tenno_6, Tribby_6, Trustiboi_5, Xenomorph_5, Yotsuba_7,

Summary by start number:

Start 1:

- Found in 20 of 192 (10.4%) of genes in pham
- Manual Annotations of this start: 9 of 159

- Called 45.0% of time when present
- Phage (with cluster) where this start called: CapnMurica_5 (AU1), ElephantMan_4 (AU1), Gordon_5 (AU1), MiniBagel_5 (AU1), Niktson_4 (AU1), Synepsis_4 (AU1), Tatanka_4 (AU1), Teacup_5 (AU1), Tenno_6 (AU1),

Start 6:

- Found in 18 of 192 (9.4%) of genes in pham
- Manual Annotations of this start: 1 of 159
- Called 5.6% of time when present
- Phage (with cluster) where this start called: Salk_6 (AW),

Start 7:

- Found in 10 of 192 (5.2%) of genes in pham
- Manual Annotations of this start: 5 of 159
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Camille_8 (EL), Damascus_8 (EL), DizzyRudy_8 (EL), Eevee_7 (JA), Elver_13 (FK), JoyLin_7 (JA), Paella_14 (FK), Pippin15_7 (JA), Qui_14 (FK), Yotsuba_7 (JA),

Start 9:

- Found in 2 of 192 (1.0%) of genes in pham
- Manual Annotations of this start: 2 of 159
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Caterpillar_6 (AU4), MediumFry_6 (AU4),

Start 11:

- Found in 13 of 192 (6.8%) of genes in pham
- Manual Annotations of this start: 1 of 159
- Called 30.8% of time when present
- Phage (with cluster) where this start called: AddiRose_8 (JA), Count_9 (EL), Daddyjeff_8 (JA), Serenabean_8 (JA),

Start 12:

- Found in 47 of 192 (24.5%) of genes in pham
- Manual Annotations of this start: 32 of 159
- Called 72.3% of time when present
- Phage (with cluster) where this start called: Arcadia_6 (AM), BenitoAntonio_6 (AM), Benllo_5 (AM), BronxBay_6 (AW), Cheesy_6 (AM), Circum_6 (AM), Correa_6 (AM), Djungelskog_6 (AW), DoctorPepper_6 (AW), Dynamite_6 (AM), Egad_6 (AW), Elsa_6 (AM), GoCrazy_5 (AM), Hankly_5 (AM), Heisenberger_6 (AM), JEGGS_6 (AM), Kardesai_5 (AM), KeaneyLin_5 (AM), Linda_6 (AW), Michelle_6 (AW), Mooshroom_6 (AM), MrAaronian_6 (AW), Mudcat_6 (AM), NapoleonB_6 (AM), Nason_6 (AM), ProfFrink_6 (AW), Raunak_6 (AW), Shiba_6 (AW), Sloopyjoe_6 (AW), Sporto_5 (AW), StarLord_6 (AW), Stayer_6 (AW), Tribby_6 (AM), Xenomorph_5 (AM),

Start 14:

- Found in 20 of 192 (10.4%) of genes in pham
- Manual Annotations of this start: 8 of 159
- Called 55.0% of time when present
- Phage (with cluster) where this start called: AreFloNak_5 (AU1), Breylor17_5 (AU1), Brunswick_5 (AU1), CastorTray_6 (AU1), Darby_5 (AU1), DevitoJr_5 (AU1), Issa_5

(AU1), Nightmare_5 (AU1), Nivinsha_5 (AU1), ScienceWizSam_6 (AU1), Trustiboi_5 (AU1),

Start 15:

- Found in 121 of 192 (63.0%) of genes in pham
- Manual Annotations of this start: 101 of 159
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Aflac_15 (DJ), AlainaMarie_15 (DJ), Annihilus_5 (BI2), Arataki_11 (DJ), Argan_5 (AU6), Artorias_11 (DJ), Arzan_6 (FI), Avazak_11 (DJ), BarbieDoll_6 (AU6), Bilo_5 (BI2), Bing_5 (BI5), BluerMoon_17 (DJ), Burley_15 (DJ), Captrips_11 (DJ), Copybara_11 (DJ), CherryBlossom_6 (BI1), Chikenjars_15 (DJ), ClubPenguin_4 (BI7), Conley_11 (DJ), CricKo_5 (BI4), Crocheter_14 (DJ), Doxi13_5 (BI2), DrGrey_5 (BI1), Duffington_15 (DJ), Eddiemania_14 (DJ), EndAve_15 (DJ), Esketit_6 (BI1), Fazel_12 (DJ), FidgetOrca_6 (BI1), Figliar_15 (DJ), FortCran_11 (DJ), FrodoSwaggins_5 (BI1), FromIndy_5 (BI4), GantcherGoblin_5 (AU6), Giantsbane_5 (AU2), Gill_11 (DJ), GirlPower_5 (BI1), GoblinVoyage_5 (BI2), Gravy_11 (DJ), Gusicorn_17 (DJ), Hortihabitatio_15 (DJ), Hoshi_6 (BI1), HotFries_4 (BI2), Hydrus_14 (DJ), IceWarrior_6 (BI1), Indigenous_6 (BI1), Ingrid_5 (AU3), Inked_6 (AU), Jaylociraptor_6 (BI1), Jazzy4900_7 (FI), Jodelie19_15 (DJ), JulesRay_13 (DJ), Kardashian_5 (BI6), Kenosha_12 (DJ), Kerry_11 (DJ), Leatheia_6 (AU6), Lewando_6 (AU6), LibertyBell_5 (BI3), LilHuddy_5 (AU2), Loretta_5 (AU3), Madamoto_6 (BI1), Madvan_15 (DJ), Magel_11 (DJ), Makai_5 (AU5), Maya_6 (BI1), Meibysrarus_6 (BI1), Miek_5 (BI4), Moozy_5 (BI2), Mossy_12 (DJ), Mysticmoon_13 (DJ), Nadmeg_15 (DJ), Namu_6 (BI1), Nithya_15 (DJ), NoPickles_11 (DJ), Odesza_11 (DJ), OhMyWard_15 (DJ), OlgasClover_15 (DJ), OlympicHelado_6 (BI1), Pepy6_012 (CC), Perkunas_13 (DJ), Petite_12 (DJ), Phaby_5 (AU2), Phaila_6 (AU6), Phepper_15 (DJ), Pherobrine_12 (DJ), PherryCruz_4 (BI2), Poco6_014 (CC), Popy_5 (BI1), Rainydai_5 (BI4), RavenPuff_4 (BI2), Regigigas_5 (BI4), Renaldo_7 (AU6), Rickmore_14 (DJ), Rima_6 (BI1), Roney_11 (DJ), RosaAsantewaa_5 (BI2), Runhaar_15 (DJ), Scap1_5 (BI2), Schwartz33_15 (DJ), Secretariat_11 (DJ), SendItCS_5 (BI4), ShaggyRogers_18 (DJ), SheRa_5 (BI2), Shepard_5 (AU2), Soshi_5 (BI1), Spectropatronm_6 (BI1), Sunny4976_6 (FI), TaidaOne_6 (BI1), Tanis_11 (DJ), TenaciousP_15 (DJ), Thiqqums_5 (BI4), TieDye_5 (BI1), Tokki_5 (AU2), TonyStarch_6 (BI1), TrixiePhattel_6 (AU6), Truckee_5 (AU5), Untouchable_14 (DJ), Uzumaki_6 (AU6), Vardy_15 (DJ), Zeina_6 (AU6), Zeph_14 (DJ),

Summary by clusters:

There are 22 clusters represented in this pham: DJ, FI, FK, JA, AU1, AU3, AU2, AU5, AU4, AU6, EL, CC, AM, AU, AW, BI6, BI7, BI4, BI5, BI2, BI3, BI1,

Info for manual annotations of cluster AM:

- Start number 12 was manually annotated 19 times for cluster AM.

Info for manual annotations of cluster AU:

- Start number 15 was manually annotated 1 time for cluster AU.

Info for manual annotations of cluster AU1:

- Start number 1 was manually annotated 9 times for cluster AU1.
- Start number 14 was manually annotated 8 times for cluster AU1.

Info for manual annotations of cluster AU2:

- Start number 15 was manually annotated 5 times for cluster AU2.

Info for manual annotations of cluster AU3:

- Start number 15 was manually annotated 2 times for cluster AU3.

Info for manual annotations of cluster AU4:

- Start number 9 was manually annotated 2 times for cluster AU4.

Info for manual annotations of cluster AU5:

- Start number 15 was manually annotated 2 times for cluster AU5.

Info for manual annotations of cluster AU6:

- Start number 15 was manually annotated 5 times for cluster AU6.

Info for manual annotations of cluster AW:

- Start number 6 was manually annotated 1 time for cluster AW.
- Start number 12 was manually annotated 13 times for cluster AW.

Info for manual annotations of cluster BI1:

- Start number 15 was manually annotated 22 times for cluster BI1.

Info for manual annotations of cluster BI2:

- Start number 15 was manually annotated 11 times for cluster BI2.

Info for manual annotations of cluster BI3:

- Start number 15 was manually annotated 1 time for cluster BI3.

Info for manual annotations of cluster BI4:

- Start number 15 was manually annotated 5 times for cluster BI4.

Info for manual annotations of cluster BI5:

- Start number 15 was manually annotated 1 time for cluster BI5.

Info for manual annotations of cluster BI6:

- Start number 15 was manually annotated 1 time for cluster BI6.

Info for manual annotations of cluster BI7:

- Start number 15 was manually annotated 1 time for cluster BI7.

Info for manual annotations of cluster DJ:

- Start number 15 was manually annotated 44 times for cluster DJ.

Info for manual annotations of cluster EL:

- Start number 7 was manually annotated 3 times for cluster EL.
- Start number 11 was manually annotated 1 time for cluster EL.

Info for manual annotations of cluster FK:

- Start number 7 was manually annotated 2 times for cluster FK.

Gene Information:

Gene: AddiRose_8 Start: 3387, Stop: 3740, Start Num: 11

Candidate Starts for AddiRose_8:

(Start: 11 @3387 has 1 MA's), (28, 3480), (34, 3522), (45, 3606), (50, 3630), (51, 3636), (62, 3717),

Gene: Aflac_15 Start: 8431, Stop: 8778, Start Num: 15

Candidate Starts for Aflac_15:

(Start: 15 @8431 has 101 MA's), (25, 8500), (28, 8512), (30, 8530), (36, 8575), (41, 8623), (52, 8671), (55, 8710),

Gene: AlainaMarie_15 Start: 8421, Stop: 8768, Start Num: 15

Candidate Starts for AlainaMarie_15:

(Start: 15 @8421 has 101 MA's), (25, 8490), (28, 8502), (30, 8520), (36, 8565), (41, 8613), (52, 8661), (55, 8700),

Gene: Annihilus_5 Start: 1913, Stop: 2281, Start Num: 15

Candidate Starts for Annihilus_5:

(10, 1904), (Start: 15 @1913 has 101 MA's), (19, 1946), (23, 1967), (24, 1973), (28, 1994), (36, 2057), (48, 2132), (50, 2144), (52, 2153), (54, 2183), (59, 2213), (62, 2231), (72, 2267), (76, 2276),

Gene: Arataki_11 Start: 6016, Stop: 6363, Start Num: 15

Candidate Starts for Arataki_11:

(Start: 15 @6016 has 101 MA's), (19, 6049), (20, 6052), (25, 6085), (36, 6160), (41, 6208), (43, 6214), (52, 6256), (55, 6295),

Gene: Arcadia_6 Start: 2848, Stop: 3216, Start Num: 12

Candidate Starts for Arcadia_6:

(Start: 12 @2848 has 32 MA's), (28, 2938), (33, 2974), (34, 2980), (38, 3040), (48, 3076), (49, 3082), (55, 3136), (69, 3202),

Gene: AreFloNak_5 Start: 2700, Stop: 3101, Start Num: 14

Candidate Starts for AreFloNak_5:

(Start: 1 @2598 has 9 MA's), (Start: 14 @2700 has 8 MA's), (19, 2739), (20, 2742), (36, 2850), (37, 2871), (41, 2898), (42, 2901), (48, 2922), (49, 2928), (52, 2943), (56, 2991), (66, 3036), (73, 3060), (78, 3084),

Gene: Argan_5 Start: 2375, Stop: 2746, Start Num: 15

Candidate Starts for Argan_5:

(8, 2363), (Start: 11 @2366 has 1 MA's), (Start: 12 @2369 has 32 MA's), (Start: 15 @2375 has 101 MA's), (34, 2501), (36, 2522), (42, 2573), (48, 2594), (49, 2600), (51, 2612), (55, 2654), (64, 2699), (66, 2708), (76, 2735),

Gene: Artorias_11 Start: 5568, Stop: 5915, Start Num: 15

Candidate Starts for Artorias_11:

(Start: 15 @5568 has 101 MA's), (25, 5637), (26, 5643), (28, 5649), (30, 5667), (36, 5712), (43, 5766), (54, 5838),

Gene: Arzan_6 Start: 2881, Stop: 3261, Start Num: 15

Candidate Starts for Arzan_6:

(8, 2869), (Start: 12 @2875 has 32 MA's), (Start: 15 @2881 has 101 MA's), (33, 3001), (48, 3100), (49, 3106), (55, 3160), (59, 3181), (64, 3205), (66, 3214),

Gene: Avazak_11 Start: 5571, Stop: 5918, Start Num: 15

Candidate Starts for Avazak_11:

(Start: 15 @5571 has 101 MA's), (25, 5640), (26, 5646), (28, 5652), (30, 5670), (36, 5715), (43, 5769), (54, 5841),

Gene: BarbieDoll_6 Start: 2668, Stop: 3039, Start Num: 15

Candidate Starts for BarbieDoll_6:

(Start: 11 @2659 has 1 MA's), (Start: 12 @2662 has 32 MA's), (Start: 15 @2668 has 101 MA's), (34, 2794), (36, 2815), (48, 2887), (52, 2908), (55, 2947), (59, 2968), (64, 2992), (66, 3001),

Gene: BenitoAntonio_6 Start: 2456, Stop: 2824, Start Num: 12

Candidate Starts for BenitoAntonio_6:

(Start: 12 @2456 has 32 MA's), (28, 2546), (33, 2582), (34, 2588), (38, 2648), (48, 2684), (55, 2744), (69, 2810),

Gene: Benllo_5 Start: 2458, Stop: 2826, Start Num: 12

Candidate Starts for Benllo_5:

(Start: 12 @2458 has 32 MA's), (28, 2548), (29, 2563), (33, 2584), (34, 2590), (38, 2650), (48, 2686), (55, 2746), (69, 2812),

Gene: Bilo_5 Start: 1904, Stop: 2272, Start Num: 15

Candidate Starts for Bilo_5:

(10, 1895), (Start: 15 @1904 has 101 MA's), (19, 1937), (24, 1964), (28, 1985), (36, 2048), (48, 2123), (50, 2135), (52, 2144), (59, 2204), (62, 2222), (76, 2267),

Gene: Bing_5 Start: 1962, Stop: 2339, Start Num: 15

Candidate Starts for Bing_5:

(10, 1953), (Start: 15 @1962 has 101 MA's), (21, 2004), (27, 2040), (29, 2058), (31, 2067), (43, 2160), (49, 2187), (55, 2241), (63, 2283),

Gene: BluerMoon_17 Start: 8425, Stop: 8772, Start Num: 15

Candidate Starts for BluerMoon_17:

(Start: 15 @8425 has 101 MA's), (25, 8494), (28, 8506), (30, 8524), (36, 8569), (41, 8617), (52, 8665), (55, 8704),

Gene: Breylor17_5 Start: 2825, Stop: 3226, Start Num: 14

Candidate Starts for Breylor17_5:

(Start: 1 @2723 has 9 MA's), (Start: 14 @2825 has 8 MA's), (19, 2864), (20, 2867), (36, 2975), (37, 2996), (41, 3023), (42, 3026), (48, 3047), (49, 3053), (51, 3065), (52, 3068), (56, 3116), (66, 3161), (73, 3185), (78, 3209),

Gene: BronxBay_6 Start: 2720, Stop: 3127, Start Num: 12

Candidate Starts for BronxBay_6:

(Start: 6 @2705 has 1 MA's), (Start: 12 @2720 has 32 MA's), (29, 2825), (33, 2846), (38, 2909), (48, 2945), (49, 2951), (58, 3023), (64, 3050), (66, 3059), (78, 3110),

Gene: Brunswick_5 Start: 2831, Stop: 3223, Start Num: 14

Candidate Starts for Brunswick_5:

(Start: 1 @2729 has 9 MA's), (2, 2768), (Start: 14 @2831 has 8 MA's), (19, 2870), (20, 2873), (36, 2981), (41, 3029), (42, 3032), (48, 3053), (49, 3059), (51, 3071), (52, 3074), (56, 3122), (66, 3167), (70, 3185), (73, 3191), (78, 3215),

Gene: Burley_15 Start: 8222, Stop: 8569, Start Num: 15

Candidate Starts for Burley_15:

(Start: 15 @8222 has 101 MA's), (19, 8255), (20, 8258), (25, 8291), (36, 8366), (41, 8414), (43, 8420), (52, 8462), (55, 8501),

Gene: Camille_8 Start: 3055, Stop: 3450, Start Num: 7

Candidate Starts for Camille_8:

(Start: 7 @3055 has 5 MA's), (19, 3109), (26, 3151), (34, 3199), (40, 3262), (61, 3394),

Gene: CapnMurica_5 Start: 3801, Stop: 4304, Start Num: 1

Candidate Starts for CapnMurica_5:

(Start: 1 @3801 has 9 MA's), (2, 3840), (Start: 14 @3903 has 8 MA's), (19, 3942), (20, 3945), (36, 4053), (41, 4101), (49, 4131), (51, 4143), (52, 4146), (56, 4194), (66, 4239), (78, 4287),

Gene: Captrips_11 Start: 5571, Stop: 5918, Start Num: 15

Candidate Starts for Captrips_11:

(Start: 15 @5571 has 101 MA's), (25, 5640), (26, 5646), (28, 5652), (30, 5670), (36, 5715), (43, 5769), (54, 5841),

Gene: Capybara_11 Start: 5284, Stop: 5631, Start Num: 15

Candidate Starts for Capybara_11:

(Start: 15 @5284 has 101 MA's), (25, 5353), (26, 5359), (28, 5365), (30, 5383), (36, 5428), (54, 5554),

Gene: CastorTray_6 Start: 2679, Stop: 3080, Start Num: 14

Candidate Starts for CastorTray_6:

(Start: 1 @2577 has 9 MA's), (Start: 14 @2679 has 8 MA's), (19, 2718), (20, 2721), (36, 2829), (37, 2850), (41, 2877), (42, 2880), (48, 2901), (49, 2907), (51, 2919), (52, 2922), (56, 2970), (66, 3015), (73, 3039), (78, 3063),

Gene: Caterpillar_6 Start: 2886, Stop: 3269, Start Num: 9

Candidate Starts for Caterpillar_6:

(Start: 9 @2886 has 2 MA's), (19, 2928), (20, 2931), (29, 2991), (36, 3039), (48, 3111), (49, 3117), (51, 3129), (52, 3132), (55, 3171), (60, 3204), (75, 3255),

Gene: Cheesy_6 Start: 2458, Stop: 2826, Start Num: 12

Candidate Starts for Cheesy_6:

(Start: 12 @2458 has 32 MA's), (28, 2548), (33, 2584), (34, 2590), (38, 2650), (48, 2686), (55, 2746), (69, 2812),

Gene: CherryBlossom_6 Start: 2243, Stop: 2620, Start Num: 15

Candidate Starts for CherryBlossom_6:

(Start: 15 @2243 has 101 MA's), (27, 2321), (29, 2339), (36, 2387), (43, 2441), (44, 2447), (45, 2450), (55, 2522),

Gene: Chikenjars_15 Start: 8421, Stop: 8768, Start Num: 15

Candidate Starts for Chikenjars_15:

(Start: 15 @8421 has 101 MA's), (25, 8490), (28, 8502), (30, 8520), (36, 8565), (41, 8613), (52, 8661), (55, 8700),

Gene: Circum_6 Start: 2458, Stop: 2826, Start Num: 12

Candidate Starts for Circum_6:

(Start: 12 @2458 has 32 MA's), (28, 2548), (33, 2584), (34, 2590), (38, 2650), (48, 2686), (55, 2746), (69, 2812),

Gene: ClubPenguin_4 Start: 1759, Stop: 2220, Start Num: 15

Candidate Starts for ClubPenguin_4:

(Start: 15 @1759 has 101 MA's), (16, 1774), (28, 1840), (29, 1855), (36, 1903), (44, 2029), (63, 2146),

Gene: Conley_11 Start: 5598, Stop: 5945, Start Num: 15

Candidate Starts for Conley_11:

(Start: 15 @5598 has 101 MA's), (28, 5679), (36, 5742), (43, 5796), (54, 5868),

Gene: Correa_6 Start: 2458, Stop: 2826, Start Num: 12

Candidate Starts for Correa_6:

(Start: 12 @2458 has 32 MA's), (28, 2548), (33, 2584), (34, 2590), (38, 2650), (48, 2686), (55, 2746), (69, 2812),

Gene: Count_9 Start: 3535, Stop: 3951, Start Num: 11

Candidate Starts for Count_9:

(Start: 11 @3535 has 1 MA's), (25, 3613), (27, 3622), (28, 3625), (48, 3763), (51, 3781),

Gene: CricKo_5 Start: 2003, Stop: 2374, Start Num: 15

Candidate Starts for CricKo_5:

(10, 1994), (Start: 15 @2003 has 101 MA's), (29, 2099), (36, 2147), (48, 2222), (60, 2315), (62, 2321),

Gene: Crocheter_14 Start: 7149, Stop: 7496, Start Num: 15

Candidate Starts for Crocheter_14:

(Start: 15 @7149 has 101 MA's), (19, 7182), (20, 7185), (25, 7218), (36, 7293), (41, 7341), (52, 7389), (55, 7428),

Gene: Daddyjeff_8 Start: 3386, Stop: 3739, Start Num: 11

Candidate Starts for Daddyjeff_8:

(Start: 11 @3386 has 1 MA's), (28, 3479), (34, 3521), (45, 3605), (48, 3617), (49, 3623), (51, 3635), (62, 3716),

Gene: Damascus_8 Start: 3033, Stop: 3425, Start Num: 7

Candidate Starts for Damascus_8:

(Start: 7 @3033 has 5 MA's), (17, 3078), (29, 3150), (50, 3285), (61, 3369), (71, 3411),

Gene: Darby_5 Start: 2682, Stop: 3083, Start Num: 14

Candidate Starts for Darby_5:

(Start: 1 @2580 has 9 MA's), (Start: 14 @2682 has 8 MA's), (19, 2721), (20, 2724), (36, 2832), (41, 2880), (42, 2883), (48, 2904), (49, 2910), (51, 2922), (52, 2925), (56, 2973), (66, 3018), (73, 3042), (78, 3066),

Gene: DevitoJr_5 Start: 2824, Stop: 3225, Start Num: 14

Candidate Starts for DevitoJr_5:

(Start: 1 @2722 has 9 MA's), (Start: 14 @2824 has 8 MA's), (19, 2863), (20, 2866), (36, 2974), (41, 3022), (42, 3025), (48, 3046), (49, 3052), (51, 3064), (52, 3067), (56, 3115), (66, 3160), (73, 3184), (78, 3208),

Gene: DizzyRudy_8 Start: 3031, Stop: 3423, Start Num: 7

Candidate Starts for DizzyRudy_8:

(Start: 7 @3031 has 5 MA's), (29, 3148), (37, 3217), (50, 3283), (61, 3367), (71, 3409),

Gene: Djungelskog_6 Start: 2720, Stop: 3127, Start Num: 12

Candidate Starts for Djungelskog_6:

(Start: 6 @2705 has 1 MA's), (Start: 12 @2720 has 32 MA's), (29, 2825), (33, 2846), (38, 2909), (48, 2945), (49, 2951), (58, 3023), (64, 3050), (66, 3059), (78, 3110),

Gene: DoctorPepper_6 Start: 2720, Stop: 3127, Start Num: 12

Candidate Starts for DoctorPepper_6:

(Start: 6 @2705 has 1 MA's), (Start: 12 @2720 has 32 MA's), (29, 2825), (33, 2846), (38, 2909), (48, 2945), (49, 2951), (58, 3023), (64, 3050), (66, 3059), (78, 3110),

Gene: Doxi13_5 Start: 1914, Stop: 2282, Start Num: 15

Candidate Starts for Doxi13_5:

(10, 1905), (Start: 15 @1914 has 101 MA's), (19, 1947), (28, 1995), (36, 2058), (48, 2133), (50, 2145), (52, 2154), (54, 2184), (59, 2214), (62, 2232), (72, 2268), (76, 2277),

Gene: DrGrey_5 Start: 1948, Stop: 2325, Start Num: 15

Candidate Starts for DrGrey_5:

(Start: 15 @1948 has 101 MA's), (27, 2026), (29, 2044), (36, 2092), (43, 2146), (44, 2152), (45, 2155), (50, 2179), (55, 2227),

Gene: Duffington_15 Start: 8406, Stop: 8753, Start Num: 15

Candidate Starts for Duffington_15:

(Start: 15 @8406 has 101 MA's), (25, 8475), (28, 8487), (30, 8505), (36, 8550), (41, 8598), (52, 8646), (55, 8685),

Gene: Dynamite_6 Start: 2458, Stop: 2826, Start Num: 12

Candidate Starts for Dynamite_6:

(Start: 12 @2458 has 32 MA's), (28, 2548), (33, 2584), (34, 2590), (38, 2650), (48, 2686), (49, 2692), (55, 2746), (69, 2812),

Gene: Eddiemania_14 Start: 7614, Stop: 7961, Start Num: 15

Candidate Starts for Eddiemania_14:

(Start: 15 @7614 has 101 MA's), (19, 7647), (20, 7650), (25, 7683), (30, 7713), (36, 7758), (41, 7806), (52, 7854), (55, 7893),

Gene: Eevee_7 Start: 2922, Stop: 3296, Start Num: 7

Candidate Starts for Eevee_7:

(3, 2901), (Start: 6 @2916 has 1 MA's), (Start: 7 @2922 has 5 MA's), (21, 2979), (27, 3015), (28, 3018), (45, 3144), (49, 3162), (56, 3225), (61, 3252), (62, 3255),

Gene: Egad_6 Start: 2721, Stop: 3128, Start Num: 12

Candidate Starts for Egad_6:

(Start: 6 @2706 has 1 MA's), (Start: 12 @2721 has 32 MA's), (29, 2826), (33, 2847), (38, 2910), (48, 2946), (49, 2952), (58, 3024), (64, 3051), (66, 3060), (78, 3111),

Gene: ElephantMan_4 Start: 2735, Stop: 3238, Start Num: 1

Candidate Starts for ElephantMan_4:

(Start: 1 @2735 has 9 MA's), (2, 2774), (Start: 14 @2837 has 8 MA's), (19, 2876), (20, 2879), (36, 2987), (41, 3035), (42, 3038), (48, 3059), (49, 3065), (51, 3077), (52, 3080), (56, 3128), (66, 3173), (73, 3197), (78, 3221),

Gene: Elsa_6 Start: 2848, Stop: 3216, Start Num: 12

Candidate Starts for Elsa_6:

(Start: 12 @2848 has 32 MA's), (28, 2938), (33, 2974), (34, 2980), (38, 3040), (48, 3076), (49, 3082), (55, 3136), (69, 3202),

Gene: Elver_13 Start: 6739, Stop: 7122, Start Num: 7

Candidate Starts for Elver_13:

(Start: 7 @6739 has 5 MA's), (16, 6772), (19, 6790), (20, 6793), (27, 6835), (29, 6853), (32, 6865), (33, 6874), (48, 6970), (49, 6976), (50, 6982), (55, 7030),

Gene: EndAve_15 Start: 8421, Stop: 8768, Start Num: 15

Candidate Starts for EndAve_15:

(Start: 15 @8421 has 101 MA's), (25, 8490), (28, 8502), (30, 8520), (36, 8565), (41, 8613), (52, 8661), (55, 8700),

Gene: Esketit_6 Start: 2226, Stop: 2603, Start Num: 15

Candidate Starts for Esketit_6:

(Start: 15 @2226 has 101 MA's), (27, 2304), (29, 2322), (36, 2370), (43, 2424), (44, 2430), (45, 2433), (55, 2505),

Gene: Fazel_12 Start: 7169, Stop: 7516, Start Num: 15

Candidate Starts for Fazel_12:

(Start: 15 @7169 has 101 MA's), (24, 7229), (25, 7238), (28, 7250), (29, 7265), (30, 7268), (36, 7313), (41, 7361), (43, 7367), (55, 7448),

Gene: FidgetOrca_6 Start: 2226, Stop: 2603, Start Num: 15

Candidate Starts for FidgetOrca_6:

(Start: 15 @2226 has 101 MA's), (27, 2304), (29, 2322), (36, 2370), (43, 2424), (44, 2430), (45, 2433), (55, 2505),

Gene: Figliar_15 Start: 8431, Stop: 8778, Start Num: 15

Candidate Starts for Figliar_15:

(Start: 15 @8431 has 101 MA's), (25, 8500), (28, 8512), (30, 8530), (36, 8575), (41, 8623), (52, 8671), (55, 8710),

Gene: FortCran_11 Start: 5568, Stop: 5915, Start Num: 15

Candidate Starts for FortCran_11:

(Start: 15 @5568 has 101 MA's), (25, 5637), (26, 5643), (28, 5649), (30, 5667), (36, 5712), (43, 5766), (54, 5838),

Gene: FrodoSwaggins_5 Start: 1948, Stop: 2325, Start Num: 15

Candidate Starts for FrodoSwaggins_5:

(Start: 15 @1948 has 101 MA's), (27, 2026), (29, 2044), (36, 2092), (43, 2146), (44, 2152), (45, 2155), (50, 2179), (55, 2227),

Gene: FromIndy_5 Start: 2003, Stop: 2374, Start Num: 15

Candidate Starts for FromIndy_5:

(10, 1994), (Start: 15 @2003 has 101 MA's), (29, 2099), (36, 2147), (48, 2222), (60, 2315), (62, 2321),

Gene: GantcherGoblin_5 Start: 2375, Stop: 2746, Start Num: 15

Candidate Starts for GantcherGoblin_5:

(5, 2351), (8, 2363), (Start: 11 @2366 has 1 MA's), (Start: 12 @2369 has 32 MA's), (Start: 15 @2375 has 101 MA's), (34, 2501), (36, 2522), (42, 2573), (48, 2594), (49, 2600), (51, 2612), (55, 2654), (64, 2699), (66, 2708), (76, 2735),

Gene: Giantsbane_5 Start: 2655, Stop: 3038, Start Num: 15

Candidate Starts for Giantsbane_5:

(4, 2628), (Start: 15 @2655 has 101 MA's), (19, 2691), (20, 2694), (33, 2775), (48, 2874), (64, 2979), (66, 2988), (72, 3009),

Gene: Gill_11 Start: 5284, Stop: 5631, Start Num: 15

Candidate Starts for Gill_11:

(Start: 15 @5284 has 101 MA's), (25, 5353), (26, 5359), (28, 5365), (30, 5383), (36, 5428), (43, 5482), (54, 5554),

Gene: GirlPower_5 Start: 2798, Stop: 3175, Start Num: 15

Candidate Starts for GirlPower_5:

(Start: 15 @2798 has 101 MA's), (26, 2873), (27, 2876), (36, 2942), (44, 3002), (45, 3005), (47, 3011), (55, 3077),

Gene: GoCrazy_5 Start: 2458, Stop: 2826, Start Num: 12

Candidate Starts for GoCrazy_5:

(Start: 12 @2458 has 32 MA's), (28, 2548), (33, 2584), (34, 2590), (38, 2650), (48, 2686), (55, 2746), (69, 2812),

Gene: GoblinVoyage_5 Start: 1914, Stop: 2282, Start Num: 15

Candidate Starts for GoblinVoyage_5:

(10, 1905), (Start: 15 @1914 has 101 MA's), (19, 1947), (28, 1995), (36, 2058), (48, 2133), (50, 2145), (52, 2154), (54, 2184), (59, 2214), (62, 2232), (72, 2268), (76, 2277),

Gene: Gordon_5 Start: 3846, Stop: 4349, Start Num: 1

Candidate Starts for Gordon_5:

(Start: 1 @3846 has 9 MA's), (2, 3885), (13, 3945), (Start: 14 @3948 has 8 MA's), (19, 3987), (20, 3990), (36, 4098), (41, 4146), (48, 4170), (49, 4176), (51, 4188), (52, 4191), (56, 4239), (66, 4284), (78, 4332),

Gene: Gravy_11 Start: 5284, Stop: 5631, Start Num: 15

Candidate Starts for Gravy_11:

(Start: 15 @5284 has 101 MA's), (25, 5353), (26, 5359), (28, 5365), (30, 5383), (36, 5428), (54, 5554),

Gene: Gusicorn_17 Start: 8221, Stop: 8568, Start Num: 15

Candidate Starts for Gusicorn_17:

(Start: 15 @8221 has 101 MA's), (19, 8254), (20, 8257), (25, 8290), (36, 8365), (41, 8413), (43, 8419), (52, 8461), (55, 8500),

Gene: Hankly_5 Start: 2482, Stop: 2850, Start Num: 12

Candidate Starts for Hankly_5:

(Start: 12 @2482 has 32 MA's), (28, 2572), (34, 2614), (38, 2674), (48, 2710), (55, 2770), (69, 2836),

Gene: Heisenberger_6 Start: 2458, Stop: 2826, Start Num: 12

Candidate Starts for Heisenberger_6:

(Start: 12 @2458 has 32 MA's), (28, 2548), (33, 2584), (34, 2590), (38, 2650), (48, 2686), (49, 2692), (55, 2746), (69, 2812),

Gene: Hortihabitatio_15 Start: 7528, Stop: 7875, Start Num: 15

Candidate Starts for Hortihabitatio_15:

(Start: 15 @7528 has 101 MA's), (24, 7588), (25, 7597), (28, 7609), (29, 7624), (36, 7672), (41, 7720), (43, 7726), (55, 7807),

Gene: Hoshi_6 Start: 2226, Stop: 2603, Start Num: 15

Candidate Starts for Hoshi_6:

(Start: 15 @2226 has 101 MA's), (27, 2304), (29, 2322), (36, 2370), (43, 2424), (44, 2430), (45, 2433), (55, 2505),

Gene: HotFries_4 Start: 1913, Stop: 2281, Start Num: 15

Candidate Starts for HotFries_4:

(10, 1904), (Start: 15 @1913 has 101 MA's), (19, 1946), (23, 1967), (24, 1973), (28, 1994), (36, 2057), (48, 2132), (50, 2144), (52, 2153), (54, 2183), (59, 2213), (62, 2231), (72, 2267), (76, 2276),

Gene: Hydrus_14 Start: 7407, Stop: 7754, Start Num: 15

Candidate Starts for Hydrus_14:

(Start: 15 @7407 has 101 MA's), (19, 7440), (25, 7476), (28, 7488), (36, 7551), (41, 7599), (43, 7605), (52, 7647), (55, 7686),

Gene: IceWarrior_6 Start: 2226, Stop: 2603, Start Num: 15

Candidate Starts for IceWarrior_6:

(Start: 15 @2226 has 101 MA's), (27, 2304), (29, 2322), (36, 2370), (43, 2424), (44, 2430), (45, 2433), (50, 2457), (55, 2505),

Gene: Indigenous_6 Start: 2226, Stop: 2603, Start Num: 15

Candidate Starts for Indigenous_6:

(Start: 15 @2226 has 101 MA's), (27, 2304), (29, 2322), (36, 2370), (43, 2424), (44, 2430), (45, 2433), (55, 2505),

Gene: Ingrid_5 Start: 2699, Stop: 3079, Start Num: 15

Candidate Starts for Ingrid_5:

(Start: 15 @2699 has 101 MA's), (19, 2738), (20, 2741), (36, 2849), (41, 2897), (42, 2900), (45, 2909), (48, 2921), (49, 2927), (51, 2939), (52, 2942), (56, 2990), (68, 3041), (77, 3068),

Gene: Inked_6 Start: 2903, Stop: 3280, Start Num: 15

Candidate Starts for Inked_6:

(Start: 15 @2903 has 101 MA's), (19, 2942), (20, 2945), (36, 3053), (42, 3104), (48, 3125), (49, 3131), (51, 3143), (52, 3146), (56, 3194), (59, 3206), (66, 3239),

Gene: Issa_5 Start: 2652, Stop: 3053, Start Num: 14

Candidate Starts for Issa_5:

(Start: 1 @2550 has 9 MA's), (Start: 14 @2652 has 8 MA's), (19, 2691), (20, 2694), (36, 2802), (41, 2850), (42, 2853), (48, 2874), (49, 2880), (51, 2892), (52, 2895), (56, 2943), (66, 2988), (73, 3012), (78, 3036),

Gene: JEGGS_6 Start: 2460, Stop: 2828, Start Num: 12

Candidate Starts for JEGGS_6:

(Start: 12 @2460 has 32 MA's), (28, 2550), (33, 2586), (34, 2592), (38, 2652), (48, 2688), (55, 2748), (69, 2814),

Gene: Jaylociraptor_6 Start: 2226, Stop: 2603, Start Num: 15

Candidate Starts for Jaylociraptor_6:

(Start: 15 @2226 has 101 MA's), (27, 2304), (29, 2322), (36, 2370), (43, 2424), (44, 2430), (45, 2433), (55, 2505),

Gene: Jazzy4900_7 Start: 2903, Stop: 3283, Start Num: 15

Candidate Starts for Jazzy4900_7:

(8, 2891), (Start: 12 @2897 has 32 MA's), (Start: 15 @2903 has 101 MA's), (18, 2936), (20, 2942), (35, 3041), (48, 3122), (55, 3182), (59, 3203), (64, 3227), (66, 3236), (72, 3260), (74, 3266),

Gene: Jodelie19_15 Start: 8425, Stop: 8772, Start Num: 15

Candidate Starts for Jodelie19_15:

(Start: 15 @8425 has 101 MA's), (25, 8494), (28, 8506), (30, 8524), (36, 8569), (41, 8617), (52, 8665), (55, 8704),

Gene: JoyLin_7 Start: 2922, Stop: 3296, Start Num: 7

Candidate Starts for JoyLin_7:

(3, 2901), (Start: 6 @2916 has 1 MA's), (Start: 7 @2922 has 5 MA's), (21, 2979), (27, 3015), (28, 3018), (45, 3144), (49, 3162), (56, 3225), (61, 3252), (62, 3255),

Gene: JulesRay_13 Start: 5568, Stop: 5915, Start Num: 15

Candidate Starts for JulesRay_13:

(Start: 15 @5568 has 101 MA's), (25, 5637), (26, 5643), (28, 5649), (30, 5667), (36, 5712), (43, 5766), (54, 5838),

Gene: Kardashian_5 Start: 2036, Stop: 2401, Start Num: 15

Candidate Starts for Kardashian_5:

(10, 2027), (Start: 15 @2036 has 101 MA's), (28, 2117), (30, 2135), (33, 2153), (36, 2180), (48, 2255), (49, 2261), (52, 2276), (55, 2315), (72, 2390), (74, 2396),

Gene: Kardesai_5 Start: 2458, Stop: 2826, Start Num: 12

Candidate Starts for Kardesai_5:

(Start: 12 @2458 has 32 MA's), (28, 2548), (33, 2584), (34, 2590), (38, 2650), (48, 2686), (49, 2692), (55, 2746), (69, 2812),

Gene: KeaneyLin_5 Start: 2458, Stop: 2826, Start Num: 12

Candidate Starts for KeaneyLin_5:

(Start: 12 @2458 has 32 MA's), (28, 2548), (33, 2584), (34, 2590), (38, 2650), (48, 2686), (55, 2746), (69, 2812),

Gene: Kenosha_12 Start: 6008, Stop: 6355, Start Num: 15

Candidate Starts for Kenosha_12:

(Start: 15 @6008 has 101 MA's), (19, 6041), (20, 6044), (25, 6077), (36, 6152), (41, 6200), (43, 6206), (52, 6248), (55, 6287),

Gene: Kerry_11 Start: 5284, Stop: 5631, Start Num: 15

Candidate Starts for Kerry_11:

(Start: 15 @5284 has 101 MA's), (25, 5353), (26, 5359), (28, 5365), (30, 5383), (36, 5428), (54, 5554),

Gene: Leathea_6 Start: 2555, Stop: 2926, Start Num: 15

Candidate Starts for Leathea_6:

(4, 2528), (Start: 6 @2534 has 1 MA's), (8, 2543), (Start: 11 @2546 has 1 MA's), (Start: 15 @2555 has 101 MA's), (34, 2681), (36, 2702), (48, 2774), (51, 2792), (52, 2795), (55, 2834), (59, 2855), (64, 2879), (66, 2888),

Gene: Lewando_6 Start: 2667, Stop: 3038, Start Num: 15

Candidate Starts for Lewando_6:

(Start: 11 @2658 has 1 MA's), (Start: 12 @2661 has 32 MA's), (Start: 15 @2667 has 101 MA's), (34, 2793), (36, 2814), (48, 2886), (52, 2907), (55, 2946), (59, 2967), (64, 2991), (66, 3000),

Gene: LibertyBell_5 Start: 1925, Stop: 2299, Start Num: 15

Candidate Starts for LibertyBell_5:

(Start: 15 @1925 has 101 MA's), (22, 1970), (27, 2003), (29, 2021), (45, 2132), (51, 2162), (57, 2216),

Gene: LilHuddy_5 Start: 2664, Stop: 3035, Start Num: 15

Candidate Starts for LilHuddy_5:

(Start: 15 @2664 has 101 MA's), (19, 2700), (20, 2703), (32, 2775), (39, 2853), (48, 2883), (60, 2976), (64, 2988), (66, 2997), (72, 3018),

Gene: Linda_6 Start: 2720, Stop: 3127, Start Num: 12

Candidate Starts for Linda_6:

(Start: 6 @2705 has 1 MA's), (Start: 12 @2720 has 32 MA's), (29, 2825), (33, 2846), (38, 2909), (48, 2945), (49, 2951), (58, 3023), (64, 3050), (66, 3059), (78, 3110),

Gene: Loretta_5 Start: 2699, Stop: 3079, Start Num: 15

Candidate Starts for Loretta_5:

(Start: 15 @2699 has 101 MA's), (19, 2738), (20, 2741), (36, 2849), (41, 2897), (42, 2900), (45, 2909), (48, 2921), (49, 2927), (51, 2939), (52, 2942), (56, 2990), (68, 3041), (77, 3068),

Gene: Madamoto_6 Start: 2224, Stop: 2601, Start Num: 15

Candidate Starts for Madamoto_6:

(Start: 15 @2224 has 101 MA's), (17, 2248), (29, 2320), (36, 2368), (44, 2428), (45, 2431), (55, 2503), (67, 2560),

Gene: Madvan_15 Start: 8222, Stop: 8569, Start Num: 15

Candidate Starts for Madvan_15:

(Start: 15 @8222 has 101 MA's), (19, 8255), (20, 8258), (25, 8291), (36, 8366), (41, 8414), (43, 8420), (52, 8462), (55, 8501),

Gene: Magel_11 Start: 5284, Stop: 5631, Start Num: 15

Candidate Starts for Magel_11:

(Start: 15 @5284 has 101 MA's), (25, 5353), (26, 5359), (28, 5365), (30, 5383), (36, 5428), (54, 5554),

Gene: Makai_5 Start: 2760, Stop: 3143, Start Num: 15

Candidate Starts for Makai_5:

(Start: 15 @2760 has 101 MA's), (19, 2796), (20, 2799), (42, 2958), (48, 2979), (49, 2985), (52, 3000), (66, 3093), (72, 3114),

Gene: Maya_6 Start: 2234, Stop: 2611, Start Num: 15

Candidate Starts for Maya_6:

(Start: 15 @2234 has 101 MA's), (27, 2312), (29, 2330), (36, 2378), (43, 2432), (44, 2438), (45, 2441), (55, 2513),

Gene: MediumFry_6 Start: 2915, Stop: 3298, Start Num: 9

Candidate Starts for MediumFry_6:

(Start: 9 @2915 has 2 MA's), (19, 2957), (20, 2960), (29, 3020), (48, 3140), (49, 3146), (51, 3158), (52, 3161), (55, 3200), (75, 3284),

Gene: Meibysrarus_6 Start: 2226, Stop: 2603, Start Num: 15

Candidate Starts for Meibysrarus_6:

(Start: 15 @2226 has 101 MA's), (27, 2304), (29, 2322), (36, 2370), (43, 2424), (44, 2430), (45, 2433), (55, 2505),

Gene: Michelle_6 Start: 2720, Stop: 3127, Start Num: 12

Candidate Starts for Michelle_6:

(Start: 6 @2705 has 1 MA's), (Start: 12 @2720 has 32 MA's), (29, 2825), (33, 2846), (38, 2909), (48, 2945), (49, 2951), (58, 3023), (64, 3050), (66, 3059), (78, 3110),

Gene: Miek_5 Start: 2003, Stop: 2374, Start Num: 15

Candidate Starts for Miek_5:

(10, 1994), (Start: 15 @2003 has 101 MA's), (29, 2099), (36, 2147), (48, 2222), (60, 2315), (62, 2321),

Gene: MiniBagel_5 Start: 3801, Stop: 4304, Start Num: 1

Candidate Starts for MiniBagel_5:

(Start: 1 @3801 has 9 MA's), (2, 3840), (Start: 14 @3903 has 8 MA's), (19, 3942), (20, 3945), (36, 4053), (41, 4101), (49, 4131), (51, 4143), (52, 4146), (56, 4194), (66, 4239), (78, 4287),

Gene: Mooshroom_6 Start: 2458, Stop: 2826, Start Num: 12

Candidate Starts for Mooshroom_6:

(Start: 12 @2458 has 32 MA's), (28, 2548), (33, 2584), (34, 2590), (38, 2650), (48, 2686), (49, 2692), (55, 2746), (69, 2812),

Gene: Moozy_5 Start: 1915, Stop: 2283, Start Num: 15

Candidate Starts for Moozy_5:

(10, 1906), (Start: 15 @1915 has 101 MA's), (19, 1948), (23, 1969), (24, 1975), (28, 1996), (36, 2059), (48, 2134), (50, 2146), (52, 2155), (54, 2185), (59, 2215), (62, 2233), (72, 2269), (76, 2278),

Gene: Mossy_12 Start: 6275, Stop: 6622, Start Num: 15

Candidate Starts for Mossy_12:

(Start: 15 @6275 has 101 MA's), (24, 6335), (25, 6344), (29, 6371), (36, 6419), (41, 6467), (43, 6473), (55, 6554),

Gene: MrAaronian_6 Start: 2720, Stop: 3127, Start Num: 12

Candidate Starts for MrAaronian_6:

(Start: 6 @2705 has 1 MA's), (Start: 12 @2720 has 32 MA's), (29, 2825), (33, 2846), (38, 2909), (48, 2945), (49, 2951), (58, 3023), (64, 3050), (66, 3059), (78, 3110),

Gene: Mudcat_6 Start: 2459, Stop: 2827, Start Num: 12

Candidate Starts for Mudcat_6:

(Start: 12 @2459 has 32 MA's), (28, 2549), (33, 2585), (34, 2591), (38, 2651), (48, 2687), (55, 2747), (69, 2813),

Gene: Mysticmoon_13 Start: 6002, Stop: 6349, Start Num: 15

Candidate Starts for Mysticmoon_13:

(Start: 15 @6002 has 101 MA's), (24, 6062), (25, 6071), (28, 6083), (29, 6098), (30, 6101), (36, 6146), (41, 6194), (43, 6200), (55, 6281),

Gene: Nadmeg_15 Start: 8223, Stop: 8570, Start Num: 15

Candidate Starts for Nadmeg_15:

(Start: 15 @8223 has 101 MA's), (19, 8256), (20, 8259), (25, 8292), (36, 8367), (41, 8415), (43, 8421), (52, 8463), (55, 8502),

Gene: Namo_6 Start: 2226, Stop: 2603, Start Num: 15

Candidate Starts for Namo_6:

(Start: 15 @2226 has 101 MA's), (27, 2304), (29, 2322), (36, 2370), (43, 2424), (44, 2430), (45, 2433), (55, 2505),

Gene: NapoleonB_6 Start: 2458, Stop: 2826, Start Num: 12

Candidate Starts for NapoleonB_6:

(Start: 12 @2458 has 32 MA's), (28, 2548), (33, 2584), (34, 2590), (38, 2650), (48, 2686), (49, 2692), (55, 2746), (69, 2812),

Gene: Nason_6 Start: 2848, Stop: 3216, Start Num: 12

Candidate Starts for Nason_6:

(Start: 12 @2848 has 32 MA's), (28, 2938), (33, 2974), (34, 2980), (38, 3040), (48, 3076), (49, 3082), (55, 3136), (69, 3202),

Gene: Nightmare_5 Start: 2671, Stop: 3072, Start Num: 14

Candidate Starts for Nightmare_5:

(Start: 1 @2569 has 9 MA's), (2, 2608), (Start: 14 @2671 has 8 MA's), (19, 2710), (20, 2713), (36, 2821), (41, 2869), (42, 2872), (48, 2893), (49, 2899), (51, 2911), (52, 2914), (56, 2962), (66, 3007), (73, 3031), (78, 3055),

Gene: Niktson_4 Start: 2735, Stop: 3238, Start Num: 1

Candidate Starts for Niktson_4:

(Start: 1 @2735 has 9 MA's), (2, 2774), (Start: 14 @2837 has 8 MA's), (19, 2876), (20, 2879), (36, 2987), (41, 3035), (42, 3038), (48, 3059), (49, 3065), (51, 3077), (52, 3080), (56, 3128), (66, 3173), (73, 3197), (78, 3221),

Gene: Nithya_15 Start: 8421, Stop: 8768, Start Num: 15

Candidate Starts for Nithya_15:

(Start: 15 @8421 has 101 MA's), (25, 8490), (28, 8502), (30, 8520), (36, 8565), (41, 8613), (52, 8661), (55, 8700),

Gene: Nivinsha_5 Start: 2700, Stop: 3101, Start Num: 14

Candidate Starts for Nivinsha_5:

(Start: 1 @2598 has 9 MA's), (Start: 14 @2700 has 8 MA's), (19, 2739), (20, 2742), (36, 2850), (37, 2871), (41, 2898), (42, 2901), (48, 2922), (49, 2928), (52, 2943), (56, 2991), (66, 3036), (73, 3060), (78, 3084),

Gene: NoPickles_11 Start: 5284, Stop: 5631, Start Num: 15

Candidate Starts for NoPickles_11:

(Start: 15 @5284 has 101 MA's), (25, 5353), (26, 5359), (28, 5365), (30, 5383), (36, 5428), (54, 5554),

Gene: Odesza_11 Start: 5284, Stop: 5631, Start Num: 15

Candidate Starts for Odesza_11:

(Start: 15 @5284 has 101 MA's), (25, 5353), (26, 5359), (28, 5365), (30, 5383), (36, 5428), (54, 5554),

Gene: OhMyWard_15 Start: 8213, Stop: 8560, Start Num: 15

Candidate Starts for OhMyWard_15:

(Start: 15 @8213 has 101 MA's), (24, 8273), (25, 8282), (28, 8294), (29, 8309), (36, 8357), (41, 8405), (43, 8411), (55, 8492),

Gene: OlgasClover_15 Start: 8422, Stop: 8769, Start Num: 15

Candidate Starts for OlgasClover_15:

(Start: 15 @8422 has 101 MA's), (25, 8491), (28, 8503), (30, 8521), (36, 8566), (41, 8614), (52, 8662), (55, 8701),

Gene: OlympicHelado_6 Start: 2226, Stop: 2603, Start Num: 15

Candidate Starts for OlympicHelado_6:

(Start: 15 @2226 has 101 MA's), (27, 2304), (29, 2322), (36, 2370), (43, 2424), (44, 2430), (45, 2433), (50, 2457), (55, 2505),

Gene: Paella_14 Start: 6738, Stop: 7121, Start Num: 7

Candidate Starts for Paella_14:

(Start: 7 @6738 has 5 MA's), (16, 6771), (19, 6789), (20, 6792), (27, 6834), (29, 6852), (32, 6864), (33, 6873), (48, 6969), (49, 6975), (50, 6981), (55, 7029),

Gene: Pepy6_012 Start: 10337, Stop: 10684, Start Num: 15

Candidate Starts for Pepy6_012:

(Start: 15 @10337 has 101 MA's), (26, 10415), (27, 10418), (28, 10421), (36, 10484), (52, 10580), (62, 10658), (65, 10664),

Gene: Perkunas_13 Start: 6096, Stop: 6443, Start Num: 15

Candidate Starts for Perkunas_13:

(Start: 15 @6096 has 101 MA's), (26, 6171), (28, 6177), (32, 6204), (36, 6240), (43, 6294), (54, 6366),

Gene: Petito_12 Start: 5792, Stop: 6139, Start Num: 15

Candidate Starts for Petito_12:

(Start: 15 @5792 has 101 MA's), (28, 5873), (36, 5936), (43, 5990), (54, 6062),

Gene: Phaby_5 Start: 2654, Stop: 3025, Start Num: 15

Candidate Starts for Phaby_5:

(4, 2627), (Start: 15 @2654 has 101 MA's), (19, 2690), (20, 2693), (32, 2765), (39, 2843), (48, 2873), (52, 2894), (60, 2966), (64, 2978), (66, 2987), (72, 3008),

Gene: Phaila_6 Start: 2644, Stop: 3015, Start Num: 15

Candidate Starts for Phaila_6:

(8, 2632), (Start: 11 @2635 has 1 MA's), (Start: 12 @2638 has 32 MA's), (Start: 15 @2644 has 101 MA's), (34, 2770), (36, 2791), (42, 2842), (48, 2863), (49, 2869), (51, 2881), (55, 2923), (64, 2968), (66, 2977), (76, 3004),

Gene: Phepper_15 Start: 8221, Stop: 8568, Start Num: 15

Candidate Starts for Phepper_15:

(Start: 15 @8221 has 101 MA's), (19, 8254), (20, 8257), (25, 8290), (36, 8365), (41, 8413), (43, 8419), (52, 8461), (55, 8500),

Gene: Pherobrine_12 Start: 6000, Stop: 6347, Start Num: 15

Candidate Starts for Pherobrine_12:

(Start: 15 @6000 has 101 MA's), (24, 6060), (25, 6069), (28, 6081), (30, 6099), (41, 6192), (43, 6198), (55, 6279),

Gene: PherryCruz_4 Start: 1913, Stop: 2281, Start Num: 15

Candidate Starts for PherryCruz_4:

(10, 1904), (Start: 15 @1913 has 101 MA's), (19, 1946), (23, 1967), (24, 1973), (28, 1994), (36, 2057), (48, 2132), (50, 2144), (52, 2153), (54, 2183), (59, 2213), (62, 2231), (72, 2267),

Gene: Pippin15_7 Start: 2934, Stop: 3326, Start Num: 7

Candidate Starts for Pippin15_7:

(Start: 7 @2934 has 5 MA's), (21, 2994), (27, 3030), (28, 3033), (34, 3075), (39, 3138), (49, 3177), (56, 3240), (61, 3267), (62, 3270),

Gene: POCO6_014 Start: 13767, Stop: 14114, Start Num: 15

Candidate Starts for POCO6_014:

(Start: 15 @13767 has 101 MA's), (28, 13851), (36, 13914), (51, 14007), (62, 14088), (65, 14094),

Gene: POPY_5 Start: 1948, Stop: 2325, Start Num: 15

Candidate Starts for POPY_5:

(Start: 15 @1948 has 101 MA's), (27, 2026), (29, 2044), (36, 2092), (43, 2146), (44, 2152), (45, 2155), (50, 2179), (55, 2227),

Gene: ProfFrink_6 Start: 2720, Stop: 3127, Start Num: 12

Candidate Starts for ProfFrink_6:

(Start: 6 @2705 has 1 MA's), (Start: 12 @2720 has 32 MA's), (29, 2825), (33, 2846), (38, 2909), (48, 2945), (49, 2951), (58, 3023), (64, 3050), (66, 3059), (78, 3110),

Gene: Qui_14 Start: 6738, Stop: 7121, Start Num: 7

Candidate Starts for Qui_14:

(Start: 7 @6738 has 5 MA's), (16, 6771), (19, 6789), (20, 6792), (27, 6834), (29, 6852), (32, 6864), (33, 6873), (48, 6969), (49, 6975), (50, 6981), (55, 7029),

Gene: Rainydai_5 Start: 2003, Stop: 2374, Start Num: 15

Candidate Starts for Rainydai_5:

(10, 1994), (Start: 15 @2003 has 101 MA's), (29, 2099), (36, 2147), (48, 2222), (60, 2315), (62, 2321),

Gene: Raunak_6 Start: 2720, Stop: 3127, Start Num: 12

Candidate Starts for Raunak_6:

(Start: 6 @2705 has 1 MA's), (Start: 12 @2720 has 32 MA's), (29, 2825), (33, 2846), (38, 2909), (48, 2945), (49, 2951), (58, 3023), (64, 3050), (66, 3059), (78, 3110),

Gene: RavenPuff_4 Start: 1913, Stop: 2281, Start Num: 15

Candidate Starts for RavenPuff_4:

(10, 1904), (Start: 15 @1913 has 101 MA's), (19, 1946), (23, 1967), (24, 1973), (28, 1994), (36, 2057), (48, 2132), (50, 2144), (52, 2153), (54, 2183), (59, 2213), (62, 2231), (72, 2267),

Gene: Regigigas_5 Start: 2003, Stop: 2374, Start Num: 15

Candidate Starts for Regigigas_5:

(10, 1994), (Start: 15 @2003 has 101 MA's), (29, 2099), (36, 2147), (48, 2222), (60, 2315), (62, 2321),

Gene: Renaldo_7 Start: 2668, Stop: 3039, Start Num: 15

Candidate Starts for Renaldo_7:

(Start: 11 @2659 has 1 MA's), (Start: 12 @2662 has 32 MA's), (Start: 15 @2668 has 101 MA's), (34, 2794), (36, 2815), (48, 2887), (52, 2908), (55, 2947), (59, 2968), (64, 2992), (66, 3001),

Gene: Rickmore_14 Start: 6991, Stop: 7338, Start Num: 15

Candidate Starts for Rickmore_14:

(Start: 15 @6991 has 101 MA's), (24, 7051), (25, 7060), (28, 7072), (36, 7135), (41, 7183), (52, 7231), (55, 7270),

Gene: Rima_6 Start: 2226, Stop: 2603, Start Num: 15

Candidate Starts for Rima_6:

(Start: 15 @2226 has 101 MA's), (27, 2304), (29, 2322), (36, 2370), (43, 2424), (44, 2430), (45, 2433), (55, 2505),

Gene: Roney_11 Start: 5284, Stop: 5631, Start Num: 15

Candidate Starts for Roney_11:

(Start: 15 @5284 has 101 MA's), (25, 5353), (26, 5359), (28, 5365), (30, 5383), (36, 5428), (54, 5554),

Gene: RosaAsantewaa_5 Start: 1886, Stop: 2254, Start Num: 15

Candidate Starts for RosaAsantewaa_5:

(Start: 15 @1886 has 101 MA's), (26, 1961), (27, 1964), (28, 1967), (36, 2030), (53, 2153), (63, 2207),

Gene: Runhaar_15 Start: 8223, Stop: 8570, Start Num: 15

Candidate Starts for Runhaar_15:

(Start: 15 @8223 has 101 MA's), (19, 8256), (20, 8259), (25, 8292), (36, 8367), (41, 8415), (43, 8421), (52, 8463), (55, 8502),

Gene: Salk_6 Start: 2705, Stop: 3127, Start Num: 6

Candidate Starts for Salk_6:

(Start: 6 @2705 has 1 MA's), (Start: 12 @2720 has 32 MA's), (29, 2825), (33, 2846), (38, 2909), (48, 2945), (49, 2951), (58, 3023), (64, 3050), (66, 3059), (78, 3110),

Gene: Scap1_5 Start: 1918, Stop: 2286, Start Num: 15

Candidate Starts for Scap1_5:

(10, 1909), (Start: 15 @1918 has 101 MA's), (19, 1951), (24, 1978), (29, 2014), (36, 2062), (48, 2137), (50, 2149), (52, 2158), (55, 2197), (57, 2209), (59, 2218), (62, 2236), (72, 2272),

Gene: Schwartz33_15 Start: 8007, Stop: 8354, Start Num: 15

Candidate Starts for Schwartz33_15:

(Start: 15 @8007 has 101 MA's), (25, 8076), (28, 8088), (30, 8106), (36, 8151), (41, 8199), (55, 8286),

Gene: ScienceWizSam_6 Start: 2655, Stop: 3056, Start Num: 14

Candidate Starts for ScienceWizSam_6:

(Start: 1 @2553 has 9 MA's), (Start: 14 @2655 has 8 MA's), (19, 2694), (20, 2697), (36, 2805), (37, 2826), (41, 2853), (42, 2856), (48, 2877), (49, 2883), (51, 2895), (52, 2898), (56, 2946), (66, 2991), (73, 3015), (78, 3039),

Gene: Secretariat_11 Start: 5609, Stop: 5956, Start Num: 15

Candidate Starts for Secretariat_11:

(Start: 15 @5609 has 101 MA's), (25, 5678), (28, 5690), (36, 5753), (41, 5801), (43, 5807), (55, 5888), (60, 5921),

Gene: SendItCS_5 Start: 2003, Stop: 2374, Start Num: 15

Candidate Starts for SendItCS_5:

(10, 1994), (Start: 15 @2003 has 101 MA's), (29, 2099), (36, 2147), (48, 2222), (60, 2315), (62, 2321),

Gene: Serenabean_8 Start: 3386, Stop: 3739, Start Num: 11

Candidate Starts for Serenabean_8:

(Start: 11 @3386 has 1 MA's), (28, 3479), (34, 3521), (45, 3605), (48, 3617), (49, 3623), (51, 3635), (62, 3716),

Gene: ShaggyRogers_18 Start: 8220, Stop: 8567, Start Num: 15

Candidate Starts for ShaggyRogers_18:

(Start: 15 @8220 has 101 MA's), (19, 8253), (20, 8256), (25, 8289), (36, 8364), (41, 8412), (43, 8418), (52, 8460), (55, 8499),

Gene: SheRa_5 Start: 1913, Stop: 2281, Start Num: 15

Candidate Starts for SheRa_5:

(10, 1904), (Start: 15 @1913 has 101 MA's), (19, 1946), (23, 1967), (24, 1973), (28, 1994), (36, 2057), (48, 2132), (50, 2144), (52, 2153), (54, 2183), (59, 2213), (62, 2231), (72, 2267), (76, 2276),

Gene: Shepard_5 Start: 2664, Stop: 3035, Start Num: 15

Candidate Starts for Shepard_5:

(Start: 15 @2664 has 101 MA's), (19, 2700), (20, 2703), (32, 2775), (39, 2853), (48, 2883), (60, 2976), (64, 2988), (66, 2997), (72, 3018),

Gene: Shiba_6 Start: 2720, Stop: 3127, Start Num: 12

Candidate Starts for Shiba_6:

(Start: 6 @2705 has 1 MA's), (Start: 12 @2720 has 32 MA's), (29, 2825), (33, 2846), (38, 2909), (48, 2945), (49, 2951), (58, 3023), (64, 3050), (66, 3059), (78, 3110),

Gene: Sloopyjoe_6 Start: 2721, Stop: 3128, Start Num: 12

Candidate Starts for Sloopyjoe_6:

(Start: 6 @2706 has 1 MA's), (Start: 12 @2721 has 32 MA's), (29, 2826), (33, 2847), (38, 2910), (48, 2946), (49, 2952), (58, 3024), (64, 3051), (66, 3060), (78, 3111),

Gene: Soshi_5 Start: 1948, Stop: 2325, Start Num: 15

Candidate Starts for Soshi_5:

(Start: 15 @1948 has 101 MA's), (27, 2026), (29, 2044), (36, 2092), (43, 2146), (44, 2152), (45, 2155), (50, 2179), (55, 2227),

Gene: Spectropatronm_6 Start: 2226, Stop: 2603, Start Num: 15

Candidate Starts for Spectropatronm_6:

(Start: 15 @2226 has 101 MA's), (27, 2304), (29, 2322), (36, 2370), (43, 2424), (44, 2430), (45, 2433), (55, 2505),

Gene: Sporto_5 Start: 2664, Stop: 3047, Start Num: 12

Candidate Starts for Sporto_5:

(8, 2658), (Start: 12 @2664 has 32 MA's), (31, 2778), (32, 2781), (34, 2796), (36, 2817), (37, 2838), (45, 2877), (48, 2889), (55, 2949), (64, 2994), (66, 3003), (76, 3036),

Gene: StarLord_6 Start: 2721, Stop: 3128, Start Num: 12

Candidate Starts for StarLord_6:

(Start: 6 @2706 has 1 MA's), (Start: 12 @2721 has 32 MA's), (29, 2826), (33, 2847), (38, 2910), (48, 2946), (49, 2952), (58, 3024), (64, 3051), (66, 3060), (78, 3111),

Gene: Stayer_6 Start: 2720, Stop: 3127, Start Num: 12

Candidate Starts for Stayer_6:

(Start: 6 @2705 has 1 MA's), (Start: 12 @2720 has 32 MA's), (29, 2825), (33, 2846), (38, 2909), (48, 2945), (49, 2951), (58, 3023), (64, 3050), (66, 3059), (78, 3110),

Gene: Sunny4976_6 Start: 2903, Stop: 3283, Start Num: 15

Candidate Starts for Sunny4976_6:

(8, 2891), (Start: 12 @2897 has 32 MA's), (Start: 15 @2903 has 101 MA's), (18, 2936), (20, 2942), (35, 3041), (48, 3122), (55, 3182), (59, 3203), (64, 3227), (66, 3236), (72, 3260), (74, 3266),

Gene: Synopsis_4 Start: 2718, Stop: 3221, Start Num: 1

Candidate Starts for Synopsis_4:

(Start: 1 @2718 has 9 MA's), (2, 2757), (Start: 14 @2820 has 8 MA's), (19, 2859), (20, 2862), (36, 2970), (37, 2991), (41, 3018), (42, 3021), (48, 3042), (49, 3048), (51, 3060), (52, 3063), (56, 3111), (66, 3156), (73, 3180), (78, 3204),

Gene: TaidaOne_6 Start: 2226, Stop: 2603, Start Num: 15

Candidate Starts for TaidaOne_6:

(Start: 15 @2226 has 101 MA's), (27, 2304), (29, 2322), (36, 2370), (43, 2424), (44, 2430), (45, 2433), (49, 2451), (50, 2457), (55, 2505),

Gene: Tanis_11 Start: 5134, Stop: 5481, Start Num: 15

Candidate Starts for Tanis_11:

(Start: 15 @5134 has 101 MA's), (25, 5203), (26, 5209), (28, 5215), (30, 5233), (36, 5278), (54, 5404),

Gene: Tatanka_4 Start: 2658, Stop: 3161, Start Num: 1

Candidate Starts for Tatanka_4:

(Start: 1 @2658 has 9 MA's), (2, 2697), (Start: 14 @2760 has 8 MA's), (19, 2799), (20, 2802), (36, 2910), (37, 2931), (41, 2958), (42, 2961), (48, 2982), (49, 2988), (51, 3000), (52, 3003), (56, 3051), (66, 3096), (73, 3120), (78, 3144),

Gene: Teacup_5 Start: 2550, Stop: 3053, Start Num: 1

Candidate Starts for Teacup_5:

(Start: 1 @2550 has 9 MA's), (Start: 14 @2652 has 8 MA's), (19, 2691), (20, 2694), (36, 2802), (41, 2850), (42, 2853), (48, 2874), (49, 2880), (51, 2892), (52, 2895), (56, 2943), (66, 2988), (73, 3012), (78, 3036),

Gene: TenaciousP_15 Start: 8425, Stop: 8772, Start Num: 15

Candidate Starts for TenaciousP_15:

(Start: 15 @8425 has 101 MA's), (25, 8494), (28, 8506), (30, 8524), (36, 8569), (41, 8617), (52, 8665), (55, 8704),

Gene: Tenno_6 Start: 3801, Stop: 4304, Start Num: 1

Candidate Starts for Tenno_6:

(Start: 1 @3801 has 9 MA's), (2, 3840), (Start: 14 @3903 has 8 MA's), (19, 3942), (20, 3945), (36, 4053), (41, 4101), (49, 4131), (51, 4143), (52, 4146), (56, 4194), (66, 4239), (78, 4287),

Gene: Thiqqums_5 Start: 2003, Stop: 2374, Start Num: 15

Candidate Starts for Thiqqums_5:

(10, 1994), (Start: 15 @2003 has 101 MA's), (29, 2099), (36, 2147), (48, 2222), (60, 2315), (62, 2321),

Gene: TieDye_5 Start: 1936, Stop: 2313, Start Num: 15

Candidate Starts for TieDye_5:

(Start: 15 @1936 has 101 MA's), (27, 2014), (29, 2032), (36, 2080), (43, 2134), (44, 2140), (45, 2143), (55, 2215),

Gene: Tokki_5 Start: 2664, Stop: 3035, Start Num: 15

Candidate Starts for Tokki_5:

(Start: 15 @2664 has 101 MA's), (19, 2700), (32, 2775), (39, 2853), (48, 2883), (52, 2904), (60, 2976), (64, 2988), (66, 2997), (76, 3024),

Gene: TonyStarch_6 Start: 2226, Stop: 2603, Start Num: 15

Candidate Starts for TonyStarch_6:

(Start: 15 @2226 has 101 MA's), (27, 2304), (29, 2322), (36, 2370), (43, 2424), (44, 2430), (45, 2433), (55, 2505),

Gene: Tribby_6 Start: 2458, Stop: 2826, Start Num: 12

Candidate Starts for Tribby_6:

(Start: 12 @2458 has 32 MA's), (28, 2548), (33, 2584), (34, 2590), (38, 2650), (48, 2686), (49, 2692), (55, 2746), (69, 2812),

Gene: TrixiePhattel_6 Start: 2605, Stop: 2976, Start Num: 15

Candidate Starts for TrixiePhattel_6:

(Start: 12 @2599 has 32 MA's), (Start: 15 @2605 has 101 MA's), (28, 2689), (34, 2731), (36, 2752), (46, 2815), (48, 2824), (49, 2830), (51, 2842), (55, 2884), (64, 2929), (66, 2938),

Gene: Truckee_5 Start: 2707, Stop: 3090, Start Num: 15

Candidate Starts for Truckee_5:

(Start: 15 @2707 has 101 MA's), (19, 2743), (20, 2746), (42, 2905), (48, 2926), (49, 2932), (52, 2947), (66, 3040), (72, 3061),

Gene: Trustiboi_5 Start: 2844, Stop: 3245, Start Num: 14

Candidate Starts for Trustiboi_5:

(Start: 1 @2742 has 9 MA's), (Start: 14 @2844 has 8 MA's), (19, 2883), (20, 2886), (36, 2994), (37, 3015), (41, 3042), (42, 3045), (48, 3066), (49, 3072), (51, 3084), (52, 3087), (56, 3135), (66, 3180), (73, 3204), (78, 3228),

Gene: Untouchable_14 Start: 7148, Stop: 7495, Start Num: 15

Candidate Starts for Untouchable_14:

(Start: 15 @7148 has 101 MA's), (19, 7181), (20, 7184), (25, 7217), (36, 7292), (41, 7340), (52, 7388), (55, 7427),

Gene: Uzumaki_6 Start: 2658, Stop: 3029, Start Num: 15

Candidate Starts for Uzumaki_6:

(8, 2646), (Start: 11 @2649 has 1 MA's), (Start: 12 @2652 has 32 MA's), (Start: 15 @2658 has 101 MA's), (34, 2784), (36, 2805), (42, 2856), (48, 2877), (49, 2883), (51, 2895), (55, 2937), (64, 2982), (66, 2991), (76, 3018),

Gene: Vardy_15 Start: 8221, Stop: 8568, Start Num: 15

Candidate Starts for Vardy_15:

(Start: 15 @8221 has 101 MA's), (19, 8254), (20, 8257), (25, 8290), (36, 8365), (41, 8413), (43, 8419), (52, 8461), (55, 8500),

Gene: Xenomorph_5 Start: 2458, Stop: 2826, Start Num: 12

Candidate Starts for Xenomorph_5:

(Start: 12 @2458 has 32 MA's), (28, 2548), (33, 2584), (34, 2590), (38, 2650), (48, 2686), (55, 2746), (69, 2812),

Gene: Yotsuba_7 Start: 2922, Stop: 3296, Start Num: 7

Candidate Starts for Yotsuba_7:

(3, 2901), (Start: 6 @2916 has 1 MA's), (Start: 7 @2922 has 5 MA's), (21, 2979), (27, 3015), (28, 3018), (49, 3162), (56, 3225), (61, 3252), (62, 3255),

Gene: Zeina_6 Start: 2668, Stop: 3039, Start Num: 15

Candidate Starts for Zeina_6:

(5, 2644), (8, 2656), (Start: 11 @2659 has 1 MA's), (Start: 12 @2662 has 32 MA's), (Start: 15 @2668 has 101 MA's), (34, 2794), (36, 2815), (42, 2866), (48, 2887), (49, 2893), (51, 2905), (55, 2947), (64, 2992), (66, 3001), (76, 3028),

Gene: Zeph_14 Start: 7407, Stop: 7754, Start Num: 15

Candidate Starts for Zeph_14:

(Start: 15 @7407 has 101 MA's), (19, 7440), (25, 7476), (28, 7488), (36, 7551), (41, 7599), (43, 7605),
(52, 7647), (55, 7686),