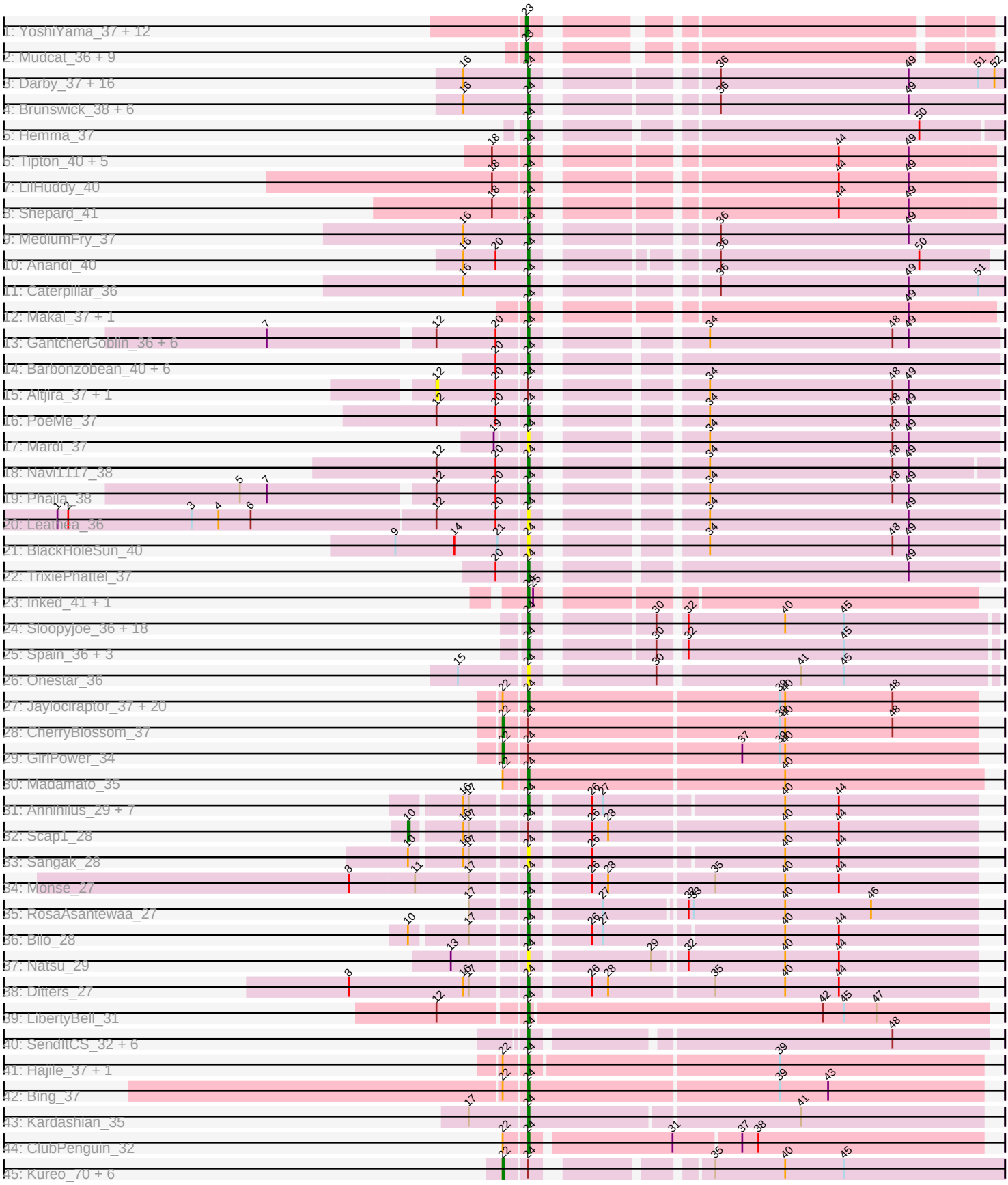
Pham 347313


1: YoshiYama_37 + 12
2: Mudcat_36 + 9
3: Darby_37 + 16
4: Brunswick_38 + 6
5: Hemma_37
6: Tipton_40 + 5
7: LilHuddy_40
8: Shepard_41
9: MediumFry_37
10: Anandi_40
11: Caterpillar_36
12: Makai_37 + 1
13: GantcherGoblin_36 + 6
14: Barbonzobean_40 + 6
15: Altjira_37 + 1
16: PoeMe_37
17: Mardi_37
18: Navi1117_38
19: Phaija_38
20: Leathea_36
21: BlackHoleSun_40
22: TrixiePhattel_37
23: Inked_41 + 1
24: Sloopyjoe_36 + 18
25: Spain_36 + 3
26: Onestar_36
27: Jaylociraptor_37 + 20
28: CherryBlossom_37
29: GirlPower_34
30: Madamato_35
31: Anninilus_29 + 7
32: Scap1_28
33: Sangak_28
34: Monse_27
35: RosaAsantewaa_27
36: Bilo_28
37: Natsu_29
38: Ditters_27
39: LibertyBell_31
40: SenditCS_32 + 6
41: Hajile_37 + 1
42: Bing_37
43: Kardashian_35
44: ClubPenguin_32
45: Kureo_70 + 6

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 347313 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347313 has 169 members, 25 are drafts.

Phages represented in each track:
• Track 1 : YoshiYama_37, BenitoAntonio_38, Mooshroom_40, Circum_39, GoCrazy_36, Stardom_35, Benllo_37, Hankly_37, KeaneyLin_36, Bowling_38, Dynamite_38, Kardesai_39, NapoleonB_38
• Track 2 : Mudcat_36, Xenomorph_34, JEGGS_37, Arcadia_37, Nason_37, Tribby_37, Correa_35, Cheesy_37, Heisenberger_37, Elsa_37
• Track 3 : Darby_37, Dinallo_39, Nivinsha_39, Trustiboi_39, AreFloNak_38, Westerlin_39, CapnMurica_37, MiniBagel_37, Issa_38, Gordon_37, Breylor17_39, DevitoJr_38, ScienceWizSam_40, Nightmare_39, CastorTray_40, Synepsis_37, Tenno_38
• Track 4 : Brunswick_38, LucySwiss_37, Niktson_37, Tatanka_37, Teacup_39, Acai_38, ElephantMan_37
• Track 5 : Hemma_37
• Track 6 : Tipton_40, Chlochlo_40, Tokki_39, Giantsbane_40, Phaby_40, Bouchard_39
• Track 7 : LilHuddy_40
• Track 8 : Shepard_41
• Track 9 : MediumFry_37
• Track 10 : Anandi_40
• Track 11 : Caterpillar_36
• Track 12 : Makai_37, Truckee_36
• Track 13 : GantcherGoblin_36, Stardrop_37, KevinMinion_38, Argan_36, Zeina_38, Tenney120_38, Uzumaki_36
• Track 14 : Barbonzobean_40, BarbieDoll_41, Renaldo_42, Lewando_40, Muglass_38, Kinny_40, Biscute_37
• Track 15 : Altjira_37, Remlit_40
• Track 16 : PoeMe_37
• Track 17 : Mardi_37
• Track 18 : Navi1117_38
• Track 19 : Phaila_38
• Track 20 : Leathea_36
• Track 21 : BlackHoleSun_40
• Track 22 : TrixiePhattel_37
• Track 23 : Inked_41, Zippen_40
• Track 24 : Sloopyjoe_36, ProfFrink_36, RustyBoy_37, StarLord_36, Shiba_36, Natasha_37, Jeremy4pt0_36, Salk_36, Egad_36, Stayer_36, Boog_36, BronxBay_36, Sprinkle_35, DoctorPepper_36, Raunak_36, Michelle_36, HerbBucket_35, Sporto_38, Linda_36

• Track 25 : Spain_36, Powelldog_38, MrAaronian_36, Djungelskog_36
• Track 26 : Onestar_36
• Track 27 : Jaylociraptor_37, Espio_37, Hoshi_37, HazuAndZazu_36, TaidaOne_37, OlympicHelado_37, TonyStarch_36, Maya_37, Meibysrarus_36, Namo_37, FidgetOrca_37, Rima_37, Spectropatronm_37, Esketit_37, DrGrey_36, IceWarrior_36, Popy_37, Indigenous_37, Soshi_36, FrodoSwaggins_37, TieDye_36
• Track 28 : CherryBlossom_37
• Track 29 : GirlPower_34
• Track 30 : Madamato_35
• Track 31 : Annihilus_29, HotFries_27, Doxi13_29, GoblinVoyage_29, RavenPuff_28, SheRa_28, PherryCruz_28, Moozy_29
• Track 32 : Scap1_28
• Track 33 : Sangak_28
• Track 34 : Monse_27
• Track 35 : RosaAsantewaa_27
• Track 36 : Bilo_28
• Track 37 : Natsu_29
• Track 38 : Ditters_27
• Track 39 : LibertyBell_31
• Track 40 : SendItCS_32, FromIndy_34, Thiqqums_34, Miek_33, CricKo_34, Rainydai_34, Regigigas_35
• Track 41 : Hajile_37, Wigberry_36
• Track 42 : Bing_37
• Track 43 : Kardashian_35
• Track 44 : ClubPenguin_32
• Track 45 : Kureo_70, Elver_68, Gandionco_68, Qui_70, JeNeSaisPas_67, Paella_70, Marianna39_70

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

The start number called the most often in the published annotations is 24, it was called in 116 of the 144 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Acai_38, Anandi_40, Annihilus_29, AreFloNak_38, Argan_36, BarbieDoll_41, Barbonzobean_40, Bilo_28, Bing_37, Biscute_37, BlackHoleSun_40, Boog_36, Bouchard_39, Breylor17_39, BronxBay_36, Brunswick_38, CapnMurica_37, CastorTray_40, Caterpillar_36, Chlochlo_40, ClubPenguin_32, CricKo_34, Darby_37, DevitoJr_38, Dinallo_39, Ditters_27, Djungelskog_36, DoctorPepper_36, Doxi13_29, DrGrey_36, Egad_36, ElephantMan_37, Esketit_37, Espio_37, FidgetOrca_37, FrodoSwaggins_37, FromIndy_34, GantcherGoblin_36, Giantsbane_40, GoblinVoyage_29, Gordon_37, Hajile_37, HazuAndZazu_36, Hemma_37, HerbBucket_35, Hoshi_37, HotFries_27, IceWarrior_36, Indigenous_37, Inked_41, Issa_38, Jaylociraptor_37, Jeremy4pt0_36, Kardashian_35, KevinMinion_38, Kinny_40, Leathea_36, Lewando_40, LibertyBell_31, LilHuddy_40, Linda_36, LucySwiss_37, Madamato_35, Makai_37, Mardi_37, Maya_37, MediumFry_37, Meibysrarus_36, Michelle_36, Miek_33, MiniBagel_37, Monse_27, Moozy_29, MrAaronian_36, Muglass_38, Namo_37, Natasha_37, Natsu_29, Navi1117_38, Nightmare_39, Niktson_37, Nivinsha_39, OlympicHelado_37, Onestar_36, Phaby_40, Phaila_38, PherryCruz_28, PoeMe_37, Popy_37, Powelldog_38, ProfFrink_36,

Rainydai_34, Raunak_36, RavenPuff_28, Regigigas_35, Renaldo_42, Rima_37, RosaAsantewaa_27, RustyBoy_37, Salk_36, Sangak_28, ScienceWizSam_40, SendItCS_32, SheRa_28, Shepard_41, Shiba_36, Sloopyjoe_36, Soshi_36, Spain_36, Spectropatronm_37, Sporto_38, Sprinkle_35, StarLord_36, Stardrop_37, Stayer_36, Synepsis_37, TaidaOne_37, Tatanka_37, Teacup_39, Tenney120_38, Tenno_38, Thiqqums_34, TieDye_36, Tipton_40, Tokki_39, TonyStarch_36, TrixiePhattel_37, Truckee_36, Trustiboi_39, Uzumaki_36, Westerlin_39, Wigberry_36, Zeina_38, Zippen_40,

Genes that have the "Most Annotated" start but do not call it:
• Altjira_37, CherryBlossom_37, Elver_68, Gandionco_68, GirlPower_34, JeNeSaisPas_67, Kureo_70, Marianna39_70, Paella_70, Qui_70, Remlit_40, Scap1_28,

Genes that do not have the "Most Annotated" start:
• Arcadia_37, BenitoAntonio_38, Benllo_37, Bowling_38, Cheesy_37, Circum_39, Correa_35, Dynamite_38, Elsa_37, GoCrazy_36, Hankly_37, Heisenberger_37, JEGGS_37, Kardesai_39, KeaneyLin_36, Mooshroom_40, Mudcat_36, NapoleonB_38, Nason_37, Stardom_35, Tribby_37, Xenomorph_34, YoshiYama_37,

Summary by start number:

Start 10:
• Found in 3 of 169 (1.8%) of genes in pham
• Manual Annotations of this start: 1 of 144
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Scap1_28 (BI2),

Start 12:
• Found in 14 of 169 (8.3%) of genes in pham
• No Manual Annotations of this start.
• Called 14.3% of time when present
• Phage (with cluster) where this start called: Altjira_37 (AU6), Remlit_40 (AU6),

Start 22:
• Found in 35 of 169 (20.7%) of genes in pham
• Manual Annotations of this start: 6 of 144
• Called 25.7% of time when present
• Phage (with cluster) where this start called: CherryBlossom_37 (BI1), Elver_68 (FK), Gandionco_68 (FK), GirlPower_34 (BI1), JeNeSaisPas_67 (FK), Kureo_70 (FK), Marianna39_70 (FK), Paella_70 (FK), Qui_70 (FK),

Start 23:
• Found in 23 of 169 (13.6%) of genes in pham
• Manual Annotations of this start: 21 of 144
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Arcadia_37 (AM), BenitoAntonio_38 (AM), Benllo_37 (AM), Bowling_38 (AM), Cheesy_37 (AM), Circum_39 (AM), Correa_35 (AM), Dynamite_38 (AM), Elsa_37 (AM), GoCrazy_36 (AM), Hankly_37 (AM), Heisenberger_37 (AM), JEGGS_37 (AM), Kardesai_39 (AM), KeaneyLin_36 (AM), Mooshroom_40 (AM), Mudcat_36 (AM), NapoleonB_38 (AM), Nason_37 (AM), Stardom_35 (AM), Tribby_37 (AM), Xenomorph_34 (AM), YoshiYama_37 (AM),

Start 24:
• Found in 146 of 169 (86.4%) of genes in pham
• Manual Annotations of this start: 116 of 144
• Called 91.8% of time when present
• Phage (with cluster) where this start called: Acai_38 (AU1), Anandi_40 (AU4), Annihilus_29 (BI2), AreFloNak_38 (AU1), Argan_36 (AU6), BarbieDoll_41 (AU6), Barbonzobean_40 (AU6), Bilo_28 (BI2), Bing_37 (BI5), Biscute_37 (AU6), BlackHoleSun_40 (AU6), Boog_36 (AW), Bouchard_39 (AU2), Breylor17_39 (AU1), BronxBay_36 (AW), Brunswick_38 (AU1), CapnMurica_37 (AU1), CastorTray_40 (AU1), Caterpillar_36 (AU4), Chlochlo_40 (AU2), ClubPenguin_32 (BI7), CricKo_34 (BI4), Darby_37 (AU1), DevitoJr_38 (AU1), Dinallo_39 (AU1), Ditters_27 (BI2), Djungelskog_36 (AW), DoctorPepper_36 (AW), Doxi13_29 (BI2), DrGrey_36 (BI1), Egad_36 (AW), ElephantMan_37 (AU1), Esketit_37 (BI1), Espio_37 (BI1), FidgetOrca_37 (BI1), FrodoSwaggins_37 (BI1), FromIndy_34 (BI4), GantcherGoblin_36 (AU6), Giantsbane_40 (AU2), GoblinVoyage_29 (BI2), Gordon_37 (AU1), Hajile_37 (BI5), HazuAndZazu_36 (BI1), Hemma_37 (AU1), HerbBucket_35 (AW), Hoshi_37 (BI1), HotFries_27 (BI2), IceWarrior_36 (BI1), Indigenous_37 (BI1), Inked_41 (AU7), Issa_38 (AU1), Jaylociraptor_37 (BI1), Jeremy4pt0_36 (AW), Kardashian_35 (BI6), KevinMinion_38 (AU6), Kinny_40 (AU6), Leathea_36 (AU6), Lewando_40 (AU6), LibertyBell_31 (BI3), LilHuddy_40 (AU2), Linda_36 (AW), LucySwiss_37 (AU1), Madamato_35 (BI1), Makai_37 (AU5), Mardi_37 (AU6), Maya_37 (BI1), MediumFry_37 (AU4), Meibysrarus_36 (BI1), Michelle_36 (AW), Miek_33 (BI4), MiniBagel_37 (AU1), Monse_27 (BI2), Moozy_29 (BI2), MrAaronian_36 (AW), Muglass_38 (AU6), Namo_37 (BI1), Natasha_37 (AW), Natsu_29 (BI2), Navi1117_38 (AU6), Nightmare_39 (AU1), Niktson_37 (AU1), Nivinsha_39 (AU1), OlympicHelado_37 (BI1), Onestar_36 (AW), Phaby_40 (AU2), Phaila_38 (AU6), PherryCruz_28 (BI2), PoeMe_37 (AU6), Popy_37 (BI1), Powelldog_38 (AW), ProfFrink_36 (AW), Rainydai_34 (BI4), Raunak_36 (AW), RavenPuff_28 (BI2), Regigigas_35 (BI4), Renaldo_42 (AU6), Rima_37 (BI1), RosaAsantewaa_27 (BI2), RustyBoy_37 (AW), Salk_36 (AW), Sangak_28 (BI2), ScienceWizSam_40 (AU1), SendItCS_32 (BI4), SheRa_28 (BI2), Shepard_41 (AU2), Shiba_36 (AW), Sloopyjoe_36 (AW), Soshi_36 (BI1), Spain_36 (AW), Spectropatronm_37 (BI1), Sporto_38 (AW), Sprinkle_35 (AW), StarLord_36 (AW), Stardrop_37 (AU6), Stayer_36 (AW), Synepsis_37 (AU1), TaidaOne_37 (BI1), Tatanka_37 (AU1), Teacup_39 (AU1), Tenney120_38 (AU6), Tenno_38 (AU1), Thiqqums_34 (BI4), TieDye_36 (BI1), Tipton_40 (AU2), Tokki_39 (AU2), TonyStarch_36 (BI1), TrixiePhattel_37 (AU6), Truckee_36 (AU5), Trustiboi_39 (AU1), Uzumaki_36 (AU6), Westerlin_39 (AU1), Wigberry_36 (BI5), Zeina_38 (AU6), Zippen_40 (AU7),

Summary by clusters:

There are 16 clusters represented in this pham: BI5, AU7, AM, AU1, AU2, AU5, AU4, AW, AU6, BI6, BI7, BI4, FK, BI2, BI3, BI1,

Info for manual annotations of cluster AM:
•Start number 23 was manually annotated 21 times for cluster AM.

Info for manual annotations of cluster AU1:
•Start number 24 was manually annotated 21 times for cluster AU1.

Info for manual annotations of cluster AU2:
•Start number 24 was manually annotated 8 times for cluster AU2.

Info for manual annotations of cluster AU4:
•Start number 24 was manually annotated 3 times for cluster AU4.

Info for manual annotations of cluster AU5:
•Start number 24 was manually annotated 2 times for cluster AU5.

Info for manual annotations of cluster AU6:
•Start number 24 was manually annotated 16 times for cluster AU6.

Info for manual annotations of cluster AU7:
•Start number 24 was manually annotated 2 times for cluster AU7.

Info for manual annotations of cluster AW:
•Start number 24 was manually annotated 20 times for cluster AW.

Info for manual annotations of cluster BI1:
•Start number 22 was manually annotated 2 times for cluster BI1.
•Start number 24 was manually annotated 22 times for cluster BI1.

Info for manual annotations of cluster BI2:
•Start number 10 was manually annotated 1 time for cluster BI2.
•Start number 24 was manually annotated 12 times for cluster BI2.

Info for manual annotations of cluster BI3:
•Start number 24 was manually annotated 1 time for cluster BI3.

Info for manual annotations of cluster BI4:
•Start number 24 was manually annotated 5 times for cluster BI4.

Info for manual annotations of cluster BI5:
•Start number 24 was manually annotated 2 times for cluster BI5.

Info for manual annotations of cluster BI6:
•Start number 24 was manually annotated 1 time for cluster BI6.

Info for manual annotations of cluster BI7:
•Start number 24 was manually annotated 1 time for cluster BI7.

Info for manual annotations of cluster FK:
•Start number 22 was manually annotated 4 times for cluster FK.

Gene Information:

Gene: Acai_38 Start: 30421, Stop: 30663, Start Num: 24
Candidate Starts for Acai_38:
(16, 30385), (Start: 24 @30421 has 116 MA's), (36, 30505), (49, 30610),

Gene: Altjira_37 Start: 29464, Stop: 29751, Start Num: 12
Candidate Starts for Altjira_37:
(12, 29464), (20, 29497), (Start: 24 @29512 has 116 MA's), (34, 29590), (48, 29692), (49, 29701),

Gene: Anandi_40 Start: 30969, Stop: 31199, Start Num: 24
Candidate Starts for Anandi_40:
(16, 30933), (20, 30951), (Start: 24 @30969 has 116 MA's), (36, 31050), (50, 31161),

Gene: Annihilus_29 Start: 23803, Stop: 24042, Start Num: 24
Candidate Starts for Annihilus_29:
(16, 23773), (17, 23776), (Start: 24 @23803 has 116 MA's), (26, 23833), (27, 23839), (40, 23935), (44, 23965),

Gene: Arcadia_37 Start: 27918, Stop: 28139, Start Num: 23
Candidate Starts for Arcadia_37:
(Start: 23 @27918 has 21 MA's),

Gene: AreFloNak_38 Start: 30359, Stop: 30601, Start Num: 24
Candidate Starts for AreFloNak_38:
(16, 30323), (Start: 24 @30359 has 116 MA's), (36, 30443), (49, 30548), (51, 30587), (52, 30596),

Gene: Argan_36 Start: 28652, Stop: 28891, Start Num: 24
Candidate Starts for Argan_36:
(7, 28517), (12, 28604), (20, 28637), (Start: 24 @28652 has 116 MA's), (34, 28730), (48, 28832), (49, 28841),

Gene: BarbieDoll_41 Start: 30355, Stop: 30594, Start Num: 24
Candidate Starts for BarbieDoll_41:
(20, 30340), (Start: 24 @30355 has 116 MA's),

Gene: Barbonzobean_40 Start: 30531, Stop: 30770, Start Num: 24
Candidate Starts for Barbonzobean_40:
(20, 30516), (Start: 24 @30531 has 116 MA's),

Gene: BenitoAntonio_38 Start: 27761, Stop: 27982, Start Num: 23
Candidate Starts for BenitoAntonio_38:
(Start: 23 @27761 has 21 MA's),

Gene: Benllo_37 Start: 28439, Stop: 28660, Start Num: 23
Candidate Starts for Benllo_37:
(Start: 23 @28439 has 21 MA's),

Gene: Bilo_28 Start: 24017, Stop: 24256, Start Num: 24
Candidate Starts for Bilo_28:
(Start: 10 @23960 has 1 MA's), (17, 23990), (Start: 24 @24017 has 116 MA's), (26, 24047), (27, 24053), (40, 24149), (44, 24179),

Gene: Bing_37 Start: 27756, Stop: 28007, Start Num: 24
Candidate Starts for Bing_37:
(Start: 22 @27744 has 6 MA's), (Start: 24 @27756 has 116 MA's), (39, 27894), (43, 27921),

Gene: Biscute_37 Start: 30008, Stop: 30247, Start Num: 24
Candidate Starts for Biscute_37:
(20, 29993), (Start: 24 @30008 has 116 MA's),

Gene: BlackHoleSun_40 Start: 29006, Stop: 29245, Start Num: 24

Candidate Starts for BlackHoleSun_40:
(9, 28934), (14, 28967), (21, 28991), (Start: 24 @29006 has 116 MA's), (34, 29084), (48, 29186), (49, 29195),

Gene: Boog_36 Start: 27777, Stop: 28016, Start Num: 24
Candidate Starts for Boog_36:
(Start: 24 @27777 has 116 MA's), (30, 27834), (32, 27846), (40, 27900), (45, 27933),

Gene: Bouchard_39 Start: 30556, Stop: 30792, Start Num: 24
Candidate Starts for Bouchard_39:
(18, 30538), (Start: 24 @30556 has 116 MA's), (44, 30706), (49, 30745),

Gene: Bowling_38 Start: 27906, Stop: 28127, Start Num: 23
Candidate Starts for Bowling_38:
(Start: 23 @27906 has 21 MA's),

Gene: Breylor17_39 Start: 30968, Stop: 31210, Start Num: 24
Candidate Starts for Breylor17_39:
(16, 30932), (Start: 24 @30968 has 116 MA's), (36, 31052), (49, 31157), (51, 31196), (52, 31205),

Gene: BronxBay_36 Start: 27776, Stop: 28015, Start Num: 24
Candidate Starts for BronxBay_36:
(Start: 24 @27776 has 116 MA's), (30, 27833), (32, 27845), (40, 27899), (45, 27932),

Gene: Brunswick_38 Start: 30104, Stop: 30346, Start Num: 24
Candidate Starts for Brunswick_38:
(16, 30068), (Start: 24 @30104 has 116 MA's), (36, 30188), (49, 30293),

Gene: CapnMurica_37 Start: 31196, Stop: 31438, Start Num: 24
Candidate Starts for CapnMurica_37:
(16, 31160), (Start: 24 @31196 has 116 MA's), (36, 31280), (49, 31385), (51, 31424), (52, 31433),

Gene: CastorTray_40 Start: 30823, Stop: 31065, Start Num: 24
Candidate Starts for CastorTray_40:
(16, 30787), (Start: 24 @30823 has 116 MA's), (36, 30907), (49, 31012), (51, 31051), (52, 31060),

Gene: Caterpillar_36 Start: 29603, Stop: 29845, Start Num: 24
Candidate Starts for Caterpillar_36:
(16, 29567), (Start: 24 @29603 has 116 MA's), (36, 29687), (49, 29792), (51, 29831),

Gene: Cheesy_37 Start: 27610, Stop: 27831, Start Num: 23
Candidate Starts for Cheesy_37:
(Start: 23 @27610 has 21 MA's),

Gene: CherryBlossom_37 Start: 27952, Stop: 28212, Start Num: 22
Candidate Starts for CherryBlossom_37:
(Start: 22 @27952 has 6 MA's), (Start: 24 @27964 has 116 MA's), (39, 28102), (40, 28105), (48, 28165),

Gene: Chlochlo_40 Start: 30591, Stop: 30827, Start Num: 24
Candidate Starts for Chlochlo_40:
(18, 30573), (Start: 24 @30591 has 116 MA's), (44, 30741), (49, 30780),

Gene: Circum_39 Start: 28270, Stop: 28491, Start Num: 23
Candidate Starts for Circum_39:
(Start: 23 @28270 has 21 MA's),

Gene: ClubPenguin_32 Start: 26523, Stop: 26768, Start Num: 24
Candidate Starts for ClubPenguin_32:
(Start: 22 @26511 has 6 MA's), (Start: 24 @26523 has 116 MA's), (31, 26598), (37, 26634), (38, 26643),

Gene: Correa_35 Start: 26801, Stop: 27022, Start Num: 23
Candidate Starts for Correa_35:
(Start: 23 @26801 has 21 MA's),

Gene: CricKo_34 Start: 26745, Stop: 26987, Start Num: 24
Candidate Starts for CricKo_34:
(Start: 24 @26745 has 116 MA's), (48, 26934),

Gene: Darby_37 Start: 29946, Stop: 30188, Start Num: 24
Candidate Starts for Darby_37:
(16, 29910), (Start: 24 @29946 has 116 MA's), (36, 30030), (49, 30135), (51, 30174), (52, 30183),

Gene: DevitoJr_38 Start: 30442, Stop: 30684, Start Num: 24
Candidate Starts for DevitoJr_38:
(16, 30406), (Start: 24 @30442 has 116 MA's), (36, 30526), (49, 30631), (51, 30670), (52, 30679),

Gene: Dinallo_39 Start: 31506, Stop: 31748, Start Num: 24
Candidate Starts for Dinallo_39:
(16, 31470), (Start: 24 @31506 has 116 MA's), (36, 31590), (49, 31695), (51, 31734), (52, 31743),

Gene: Ditters_27 Start: 23681, Stop: 23923, Start Num: 24
Candidate Starts for Ditters_27:
(8, 23588), (16, 23651), (17, 23654), (Start: 24 @23681 has 116 MA's), (26, 23711), (28, 23720), (35, 23777), (40, 23816), (44, 23846),

Gene: Djungelskog_36 Start: 27776, Stop: 28015, Start Num: 24
Candidate Starts for Djungelskog_36:
(Start: 24 @27776 has 116 MA's), (30, 27833), (32, 27845), (45, 27932),

Gene: DoctorPepper_36 Start: 27776, Stop: 28015, Start Num: 24
Candidate Starts for DoctorPepper_36:
(Start: 24 @27776 has 116 MA's), (30, 27833), (32, 27845), (40, 27899), (45, 27932),

Gene: Doxi13_29 Start: 23766, Stop: 24005, Start Num: 24
Candidate Starts for Doxi13_29:
(16, 23736), (17, 23739), (Start: 24 @23766 has 116 MA's), (26, 23796), (27, 23802), (40, 23898), (44, 23928),

Gene: DrGrey_36 Start: 28304, Stop: 28552, Start Num: 24
Candidate Starts for DrGrey_36:
(Start: 22 @28292 has 6 MA's), (Start: 24 @28304 has 116 MA's), (39, 28442), (40, 28445), (48, 28505),

Gene: Dynamite_38 Start: 28101, Stop: 28322, Start Num: 23

Candidate Starts for Dynamite_38:
(Start: 23 @28101 has 21 MA's),

Gene: Egad_36 Start: 27777, Stop: 28016, Start Num: 24
Candidate Starts for Egad_36:
(Start: 24 @27777 has 116 MA's), (30, 27834), (32, 27846), (40, 27900), (45, 27933),

Gene: ElephantMan_37 Start: 30644, Stop: 30886, Start Num: 24
Candidate Starts for ElephantMan_37:
(16, 30608), (Start: 24 @30644 has 116 MA's), (36, 30728), (49, 30833),

Gene: Elsa_37 Start: 27918, Stop: 28139, Start Num: 23
Candidate Starts for Elsa_37:
(Start: 23 @27918 has 21 MA's),

Gene: Elver_68 Start: 44169, Stop: 44420, Start Num: 22
Candidate Starts for Elver_68:
(Start: 22 @44169 has 6 MA's), (Start: 24 @44181 has 116 MA's), (35, 44259), (40, 44298), (45, 44331),

Gene: Esketit_37 Start: 28039, Stop: 28287, Start Num: 24
Candidate Starts for Esketit_37:
(Start: 22 @28027 has 6 MA's), (Start: 24 @28039 has 116 MA's), (39, 28177), (40, 28180), (48, 28240),

Gene: Espio_37 Start: 28699, Stop: 28947, Start Num: 24
Candidate Starts for Espio_37:
(Start: 22 @28687 has 6 MA's), (Start: 24 @28699 has 116 MA's), (39, 28837), (40, 28840), (48, 28900),

Gene: FidgetOrca_37 Start: 28044, Stop: 28292, Start Num: 24
Candidate Starts for FidgetOrca_37:
(Start: 22 @28032 has 6 MA's), (Start: 24 @28044 has 116 MA's), (39, 28182), (40, 28185), (48, 28245),

Gene: FrodoSwaggins_37 Start: 28698, Stop: 28946, Start Num: 24
Candidate Starts for FrodoSwaggins_37:
(Start: 22 @28686 has 6 MA's), (Start: 24 @28698 has 116 MA's), (39, 28836), (40, 28839), (48, 28899),

Gene: FromIndy_34 Start: 26349, Stop: 26591, Start Num: 24
Candidate Starts for FromIndy_34:
(Start: 24 @26349 has 116 MA's), (48, 26538),

Gene: Gandionco_68 Start: 44478, Stop: 44729, Start Num: 22
Candidate Starts for Gandionco_68:
(Start: 22 @44478 has 6 MA's), (Start: 24 @44490 has 116 MA's), (35, 44568), (40, 44607), (45, 44640),

Gene: GantcherGoblin_36 Start: 28690, Stop: 28929, Start Num: 24
Candidate Starts for GantcherGoblin_36:
(7, 28555), (12, 28642), (20, 28675), (Start: 24 @28690 has 116 MA's), (34, 28768), (48, 28870), (49, 28879),

Gene: Giantsbane_40 Start: 29463, Stop: 29699, Start Num: 24
Candidate Starts for Giantsbane_40:
(18, 29445), (Start: 24 @29463 has 116 MA's), (44, 29613), (49, 29652),

Gene: GirlPower_34 Start: 29017, Stop: 29277, Start Num: 22
Candidate Starts for GirlPower_34:
(Start: 22 @29017 has 6 MA's), (Start: 24 @29029 has 116 MA's), (37, 29146), (39, 29167), (40, 29170),

Gene: GoCrazy_36 Start: 27748, Stop: 27969, Start Num: 23
Candidate Starts for GoCrazy_36:
(Start: 23 @27748 has 21 MA's),

Gene: GoblinVoyage_29 Start: 23766, Stop: 24005, Start Num: 24
Candidate Starts for GoblinVoyage_29:
(16, 23736), (17, 23739), (Start: 24 @23766 has 116 MA's), (26, 23796), (27, 23802), (40, 23898), (44, 23928),

Gene: Gordon_37 Start: 31225, Stop: 31467, Start Num: 24
Candidate Starts for Gordon_37:
(16, 31189), (Start: 24 @31225 has 116 MA's), (36, 31309), (49, 31414), (51, 31453), (52, 31462),

Gene: Hajile_37 Start: 27314, Stop: 27562, Start Num: 24
Candidate Starts for Hajile_37:
(Start: 22 @27302 has 6 MA's), (Start: 24 @27314 has 116 MA's), (39, 27449),

Gene: Hankly_37 Start: 27293, Stop: 27514, Start Num: 23
Candidate Starts for Hankly_37:
(Start: 23 @27293 has 21 MA's),

Gene: HazuAndZazu_36 Start: 28300, Stop: 28548, Start Num: 24
Candidate Starts for HazuAndZazu_36:
(Start: 22 @28288 has 6 MA's), (Start: 24 @28300 has 116 MA's), (39, 28438), (40, 28441), (48, 28501),

Gene: Heisenberger_37 Start: 27603, Stop: 27824, Start Num: 23
Candidate Starts for Heisenberger_37:
(Start: 23 @27603 has 21 MA's),

Gene: Hemma_37 Start: 27247, Stop: 27483, Start Num: 24
Candidate Starts for Hemma_37:
(Start: 24 @27247 has 116 MA's), (50, 27439),

Gene: HerbBucket_35 Start: 27777, Stop: 28016, Start Num: 24
Candidate Starts for HerbBucket_35:
(Start: 24 @27777 has 116 MA's), (30, 27834), (32, 27846), (40, 27900), (45, 27933),

Gene: Hoshi_37 Start: 28039, Stop: 28287, Start Num: 24
Candidate Starts for Hoshi_37:
(Start: 22 @28027 has 6 MA's), (Start: 24 @28039 has 116 MA's), (39, 28177), (40, 28180), (48, 28240),

Gene: HotFries_27 Start: 23496, Stop: 23735, Start Num: 24
Candidate Starts for HotFries_27:
(16, 23466), (17, 23469), (Start: 24 @23496 has 116 MA's), (26, 23526), (27, 23532), (40, 23628), (44, 23658),

Gene: IceWarrior_36 Start: 27739, Stop: 27987, Start Num: 24
Candidate Starts for IceWarrior_36:
(Start: 22 @27727 has 6 MA's), (Start: 24 @27739 has 116 MA's), (39, 27877), (40, 27880), (48, 27940),

Gene: Indigenous_37 Start: 28039, Stop: 28287, Start Num: 24
Candidate Starts for Indigenous_37:
(Start: 22 @28027 has 6 MA's), (Start: 24 @28039 has 116 MA's), (39, 28177), (40, 28180), (48, 28240),

Gene: Inked_41 Start: 31501, Stop: 31728, Start Num: 24
Candidate Starts for Inked_41:
(Start: 24 @31501 has 116 MA's), (25, 31504),

Gene: Issa_38 Start: 30251, Stop: 30493, Start Num: 24
Candidate Starts for Issa_38:
(16, 30215), (Start: 24 @30251 has 116 MA's), (36, 30335), (49, 30440), (51, 30479), (52, 30488),

Gene: JEGGS_37 Start: 27657, Stop: 27878, Start Num: 23
Candidate Starts for JEGGS_37:
(Start: 23 @27657 has 21 MA's),

Gene: Jaylociraptor_37 Start: 28039, Stop: 28287, Start Num: 24
Candidate Starts for Jaylociraptor_37:
(Start: 22 @28027 has 6 MA's), (Start: 24 @28039 has 116 MA's), (39, 28177), (40, 28180), (48, 28240),

Gene: JeNeSaisPas_67 Start: 44704, Stop: 44955, Start Num: 22
Candidate Starts for JeNeSaisPas_67:
(Start: 22 @44704 has 6 MA's), (Start: 24 @44716 has 116 MA's), (35, 44794), (40, 44833), (45, 44866),

Gene: Jeremy4pt0_36 Start: 27771, Stop: 28010, Start Num: 24
Candidate Starts for Jeremy4pt0_36:
(Start: 24 @27771 has 116 MA's), (30, 27828), (32, 27840), (40, 27894), (45, 27927),

Gene: Kardashian_35 Start: 27816, Stop: 28064, Start Num: 24
Candidate Starts for Kardashian_35:
(17, 27786), (Start: 24 @27816 has 116 MA's), (41, 27963),

Gene: Kardesai_39 Start: 28323, Stop: 28544, Start Num: 23
Candidate Starts for Kardesai_39:
(Start: 23 @28323 has 21 MA's),

Gene: KeaneyLin_36 Start: 27748, Stop: 27969, Start Num: 23
Candidate Starts for KeaneyLin_36:
(Start: 23 @27748 has 21 MA's),

Gene: KevinMinion_38 Start: 29964, Stop: 30203, Start Num: 24
Candidate Starts for KevinMinion_38:
(7, 29829), (12, 29916), (20, 29949), (Start: 24 @29964 has 116 MA's), (34, 30042), (48, 30144), (49, 30153),

Gene: Kinny_40 Start: 30849, Stop: 31088, Start Num: 24
Candidate Starts for Kinny_40:
(20, 30834), (Start: 24 @30849 has 116 MA's),

Gene: Kureo_70 Start: 43890, Stop: 44141, Start Num: 22
Candidate Starts for Kureo_70:
(Start: 22 @43890 has 6 MA's), (Start: 24 @43902 has 116 MA's), (35, 43980), (40, 44019), (45, 44052),

Gene: Leathea_36 Start: 28113, Stop: 28352, Start Num: 24
Candidate Starts for Leathea_36:
(1, 27855), (2, 27861), (3, 27930), (4, 27945), (6, 27963), (12, 28065), (20, 28098), (Start: 24 @28113 has 116 MA's), (34, 28191), (49, 28302),

Gene: Lewando_40 Start: 30552, Stop: 30791, Start Num: 24
Candidate Starts for Lewando_40:
(20, 30537), (Start: 24 @30552 has 116 MA's),

Gene: LibertyBell_31 Start: 25601, Stop: 25855, Start Num: 24
Candidate Starts for LibertyBell_31:
(12, 25556), (Start: 24 @25601 has 116 MA's), (42, 25763), (45, 25775), (47, 25793),

Gene: LilHuddy_40 Start: 30610, Stop: 30846, Start Num: 24
Candidate Starts for LilHuddy_40:
(18, 30592), (Start: 24 @30610 has 116 MA's), (44, 30760), (49, 30799),

Gene: Linda_36 Start: 27772, Stop: 28011, Start Num: 24
Candidate Starts for Linda_36:
(Start: 24 @27772 has 116 MA's), (30, 27829), (32, 27841), (40, 27895), (45, 27928),

Gene: LucySwiss_37 Start: 29946, Stop: 30188, Start Num: 24
Candidate Starts for LucySwiss_37:
(16, 29910), (Start: 24 @29946 has 116 MA's), (36, 30030), (49, 30135),

Gene: Madamato_35 Start: 27294, Stop: 27545, Start Num: 24
Candidate Starts for Madamato_35:
(Start: 22 @27282 has 6 MA's), (Start: 24 @27294 has 116 MA's), (40, 27435),

Gene: Makai_37 Start: 30096, Stop: 30332, Start Num: 24
Candidate Starts for Makai_37:
(Start: 24 @30096 has 116 MA's), (49, 30285),

Gene: Mardi_37 Start: 28933, Stop: 29172, Start Num: 24
Candidate Starts for Mardi_37:
(19, 28918), (Start: 24 @28933 has 116 MA's), (34, 29011), (48, 29113), (49, 29122),

Gene: Marianna39_70 Start: 45053, Stop: 45304, Start Num: 22
Candidate Starts for Marianna39_70:

(Start: 22 @45053 has 6 MA's), (Start: 24 @45065 has 116 MA's), (35, 45143), (40, 45182), (45, 45215),

Gene: Maya_37 Start: 28053, Stop: 28301, Start Num: 24
Candidate Starts for Maya_37:
(Start: 22 @28041 has 6 MA's), (Start: 24 @28053 has 116 MA's), (39, 28191), (40, 28194), (48, 28254),

Gene: MediumFry_37 Start: 29916, Stop: 30158, Start Num: 24
Candidate Starts for MediumFry_37:
(16, 29880), (Start: 24 @29916 has 116 MA's), (36, 30000), (49, 30105),

Gene: Meibysrarus_36 Start: 27738, Stop: 27986, Start Num: 24
Candidate Starts for Meibysrarus_36:
(Start: 22 @27726 has 6 MA's), (Start: 24 @27738 has 116 MA's), (39, 27876), (40, 27879), (48, 27939),

Gene: Michelle_36 Start: 27776, Stop: 28015, Start Num: 24
Candidate Starts for Michelle_36:
(Start: 24 @27776 has 116 MA's), (30, 27833), (32, 27845), (40, 27899), (45, 27932),

Gene: Miek_33 Start: 26361, Stop: 26603, Start Num: 24
Candidate Starts for Miek_33:
(Start: 24 @26361 has 116 MA's), (48, 26550),

Gene: MiniBagel_37 Start: 31178, Stop: 31420, Start Num: 24
Candidate Starts for MiniBagel_37:
(16, 31142), (Start: 24 @31178 has 116 MA's), (36, 31262), (49, 31367), (51, 31406), (52, 31415),

Gene: Monse_27 Start: 23232, Stop: 23474, Start Num: 24
Candidate Starts for Monse_27:
(8, 23139), (11, 23175), (17, 23205), (Start: 24 @23232 has 116 MA's), (26, 23262), (28, 23271), (35, 23328), (40, 23367), (44, 23397),

Gene: Mooshroom_40 Start: 28323, Stop: 28544, Start Num: 23
Candidate Starts for Mooshroom_40:
(Start: 23 @28323 has 21 MA's),

Gene: Moozy_29 Start: 23790, Stop: 24029, Start Num: 24
Candidate Starts for Moozy_29:
(16, 23760), (17, 23763), (Start: 24 @23790 has 116 MA's), (26, 23820), (27, 23826), (40, 23922), (44, 23952),

Gene: MrAaronian_36 Start: 27776, Stop: 28015, Start Num: 24
Candidate Starts for MrAaronian_36:
(Start: 24 @27776 has 116 MA's), (30, 27833), (32, 27845), (45, 27932),

Gene: Mudcat_36 Start: 29309, Stop: 29530, Start Num: 23
Candidate Starts for Mudcat_36:
(Start: 23 @29309 has 21 MA's),

Gene: Muglass_38 Start: 29912, Stop: 30151, Start Num: 24
Candidate Starts for Muglass_38:

(20, 29897), (Start: 24 @29912 has 116 MA's),

Gene: Namo_37 Start: 28045, Stop: 28293, Start Num: 24
Candidate Starts for Namo_37:
(Start: 22 @28033 has 6 MA's), (Start: 24 @28045 has 116 MA's), (39, 28183), (40, 28186), (48, 28246),

Gene: NapoleonB_38 Start: 28101, Stop: 28322, Start Num: 23
Candidate Starts for NapoleonB_38:
(Start: 23 @28101 has 21 MA's),

Gene: Nason_37 Start: 27918, Stop: 28139, Start Num: 23
Candidate Starts for Nason_37:
(Start: 23 @27918 has 21 MA's),

Gene: Natasha_37 Start: 27544, Stop: 27783, Start Num: 24
Candidate Starts for Natasha_37:
(Start: 24 @27544 has 116 MA's), (30, 27601), (32, 27613), (40, 27667), (45, 27700),

Gene: Natsu_29 Start: 23450, Stop: 23689, Start Num: 24
Candidate Starts for Natsu_29:
(13, 23414), (Start: 24 @23450 has 116 MA's), (29, 23513), (32, 23528), (40, 23582), (44, 23612),

Gene: Navi1117_38 Start: 29262, Stop: 29498, Start Num: 24
Candidate Starts for Navi1117_38:
(12, 29214), (20, 29247), (Start: 24 @29262 has 116 MA's), (34, 29340), (48, 29442), (49, 29451),

Gene: Nightmare_39 Start: 30810, Stop: 31052, Start Num: 24
Candidate Starts for Nightmare_39:
(16, 30774), (Start: 24 @30810 has 116 MA's), (36, 30894), (49, 30999), (51, 31038), (52, 31047),

Gene: Niktson_37 Start: 30644, Stop: 30886, Start Num: 24
Candidate Starts for Niktson_37:
(16, 30608), (Start: 24 @30644 has 116 MA's), (36, 30728), (49, 30833),

Gene: Nivinsha_39 Start: 30359, Stop: 30601, Start Num: 24
Candidate Starts for Nivinsha_39:
(16, 30323), (Start: 24 @30359 has 116 MA's), (36, 30443), (49, 30548), (51, 30587), (52, 30596),

Gene: OlympicHelado_37 Start: 28045, Stop: 28293, Start Num: 24
Candidate Starts for OlympicHelado_37:
(Start: 22 @28033 has 6 MA's), (Start: 24 @28045 has 116 MA's), (39, 28183), (40, 28186), (48, 28246),

Gene: Onestar_36 Start: 27533, Stop: 27775, Start Num: 24
Candidate Starts for Onestar_36:
(15, 27497), (Start: 24 @27533 has 116 MA's), (30, 27593), (41, 27668), (45, 27692),

Gene: Paella_70 Start: 44762, Stop: 45013, Start Num: 22
Candidate Starts for Paella_70:
(Start: 22 @44762 has 6 MA's), (Start: 24 @44774 has 116 MA's), (35, 44852), (40, 44891), (45, 44924),

Gene: Phaby_40 Start: 30565, Stop: 30801, Start Num: 24
Candidate Starts for Phaby_40:
(18, 30547), (Start: 24 @30565 has 116 MA's), (44, 30715), (49, 30754),

Gene: Phaila_38 Start: 28726, Stop: 28965, Start Num: 24
Candidate Starts for Phaila_38:
(5, 28576), (7, 28591), (12, 28678), (20, 28711), (Start: 24 @28726 has 116 MA's), (34, 28804), (48, 28906), (49, 28915),

Gene: PherryCruz_28 Start: 23765, Stop: 24004, Start Num: 24
Candidate Starts for PherryCruz_28:
(16, 23735), (17, 23738), (Start: 24 @23765 has 116 MA's), (26, 23795), (27, 23801), (40, 23897), (44, 23927),

Gene: PoeMe_37 Start: 29130, Stop: 29369, Start Num: 24
Candidate Starts for PoeMe_37:
(12, 29082), (20, 29115), (Start: 24 @29130 has 116 MA's), (34, 29208), (48, 29310), (49, 29319),

Gene: Popy_37 Start: 28698, Stop: 28946, Start Num: 24
Candidate Starts for Popy_37:
(Start: 22 @28686 has 6 MA's), (Start: 24 @28698 has 116 MA's), (39, 28836), (40, 28839), (48, 28899),

Gene: Powelldog_38 Start: 27783, Stop: 28022, Start Num: 24
Candidate Starts for Powelldog_38:
(Start: 24 @27783 has 116 MA's), (30, 27840), (32, 27852), (45, 27939),

Gene: ProfFrink_36 Start: 27776, Stop: 28015, Start Num: 24
Candidate Starts for ProfFrink_36:
(Start: 24 @27776 has 116 MA's), (30, 27833), (32, 27845), (40, 27899), (45, 27932),

Gene: Qui_70 Start: 44762, Stop: 45013, Start Num: 22
Candidate Starts for Qui_70:
(Start: 22 @44762 has 6 MA's), (Start: 24 @44774 has 116 MA's), (35, 44852), (40, 44891), (45, 44924),

Gene: Rainydai_34 Start: 26745, Stop: 26987, Start Num: 24
Candidate Starts for Rainydai_34:
(Start: 24 @26745 has 116 MA's), (48, 26934),

Gene: Raunak_36 Start: 27771, Stop: 28010, Start Num: 24
Candidate Starts for Raunak_36:
(Start: 24 @27771 has 116 MA's), (30, 27828), (32, 27840), (40, 27894), (45, 27927),

Gene: RavenPuff_28 Start: 23765, Stop: 24004, Start Num: 24
Candidate Starts for RavenPuff_28:
(16, 23735), (17, 23738), (Start: 24 @23765 has 116 MA's), (26, 23795), (27, 23801), (40, 23897), (44, 23927),

Gene: Regigigas_35 Start: 26745, Stop: 26987, Start Num: 24
Candidate Starts for Regigigas_35:
(Start: 24 @26745 has 116 MA's), (48, 26934),

Gene: Remlit_40 Start: 28816, Stop: 29103, Start Num: 12
Candidate Starts for Remlit_40:
(12, 28816), (20, 28849), (Start: 24 @28864 has 116 MA's), (34, 28942), (48, 29044), (49, 29053),

Gene: Renaldo_42 Start: 30569, Stop: 30808, Start Num: 24
Candidate Starts for Renaldo_42:
(20, 30554), (Start: 24 @30569 has 116 MA's),

Gene: Rima_37 Start: 28045, Stop: 28293, Start Num: 24
Candidate Starts for Rima_37:
(Start: 22 @28033 has 6 MA's), (Start: 24 @28045 has 116 MA's), (39, 28183), (40, 28186), (48, 28246),

Gene: RosaAsantewaa_27 Start: 23272, Stop: 23511, Start Num: 24
Candidate Starts for RosaAsantewaa_27:
(17, 23245), (Start: 24 @23272 has 116 MA's), (27, 23308), (32, 23350), (33, 23353), (40, 23404), (46, 23452),

Gene: RustyBoy_37 Start: 27525, Stop: 27764, Start Num: 24
Candidate Starts for RustyBoy_37:
(Start: 24 @27525 has 116 MA's), (30, 27582), (32, 27594), (40, 27648), (45, 27681),

Gene: Salk_36 Start: 27772, Stop: 28011, Start Num: 24
Candidate Starts for Salk_36:
(Start: 24 @27772 has 116 MA's), (30, 27829), (32, 27841), (40, 27895), (45, 27928),

Gene: Sangak_28 Start: 23490, Stop: 23729, Start Num: 24
Candidate Starts for Sangak_28:
(Start: 10 @23433 has 1 MA's), (16, 23460), (17, 23463), (Start: 24 @23490 has 116 MA's), (26, 23520), (40, 23622), (44, 23652),

Gene: Scap1_28 Start: 23389, Stop: 23688, Start Num: 10
Candidate Starts for Scap1_28:
(Start: 10 @23389 has 1 MA's), (16, 23416), (17, 23419), (Start: 24 @23446 has 116 MA's), (26, 23476), (28, 23485), (40, 23581), (44, 23611),

Gene: ScienceWizSam_40 Start: 30761, Stop: 31003, Start Num: 24
Candidate Starts for ScienceWizSam_40:
(16, 30725), (Start: 24 @30761 has 116 MA's), (36, 30845), (49, 30950), (51, 30989), (52, 30998),

Gene: SendItCS_32 Start: 26361, Stop: 26603, Start Num: 24
Candidate Starts for SendItCS_32:
(Start: 24 @26361 has 116 MA's), (48, 26550),

Gene: SheRa_28 Start: 23497, Stop: 23736, Start Num: 24
Candidate Starts for SheRa_28:
(16, 23467), (17, 23470), (Start: 24 @23497 has 116 MA's), (26, 23527), (27, 23533), (40, 23629), (44, 23659),

Gene: Shepard_41 Start: 30896, Stop: 31132, Start Num: 24
Candidate Starts for Shepard_41:
(18, 30878), (Start: 24 @30896 has 116 MA's), (44, 31046), (49, 31085),

Gene: Shiba_36 Start: 27771, Stop: 28010, Start Num: 24
Candidate Starts for Shiba_36:
(Start: 24 @27771 has 116 MA's), (30, 27828), (32, 27840), (40, 27894), (45, 27927),

Gene: Sloopyjoe_36 Start: 27777, Stop: 28016, Start Num: 24
Candidate Starts for Sloopyjoe_36:
(Start: 24 @27777 has 116 MA's), (30, 27834), (32, 27846), (40, 27900), (45, 27933),

Gene: Soshi_36 Start: 28310, Stop: 28558, Start Num: 24
Candidate Starts for Soshi_36:
(Start: 22 @28298 has 6 MA's), (Start: 24 @28310 has 116 MA's), (39, 28448), (40, 28451), (48, 28511),

Gene: Spain_36 Start: 27776, Stop: 28015, Start Num: 24
Candidate Starts for Spain_36:
(Start: 24 @27776 has 116 MA's), (30, 27833), (32, 27845), (45, 27932),

Gene: Spectropatronm_37 Start: 28039, Stop: 28287, Start Num: 24
Candidate Starts for Spectropatronm_37:
(Start: 22 @28027 has 6 MA's), (Start: 24 @28039 has 116 MA's), (39, 28177), (40, 28180), (48, 28240),

Gene: Sporto_38 Start: 29260, Stop: 29499, Start Num: 24
Candidate Starts for Sporto_38:
(Start: 24 @29260 has 116 MA's), (30, 29317), (32, 29329), (40, 29383), (45, 29416),

Gene: Sprinkle_35 Start: 27600, Stop: 27842, Start Num: 24
Candidate Starts for Sprinkle_35:
(Start: 24 @27600 has 116 MA's), (30, 27657), (32, 27669), (40, 27723), (45, 27756),

Gene: StarLord_36 Start: 27777, Stop: 28016, Start Num: 24
Candidate Starts for StarLord_36:
(Start: 24 @27777 has 116 MA's), (30, 27834), (32, 27846), (40, 27900), (45, 27933),

Gene: Stardom_35 Start: 26802, Stop: 27023, Start Num: 23
Candidate Starts for Stardom_35:
(Start: 23 @26802 has 21 MA's),

Gene: Stardrop_37 Start: 29277, Stop: 29516, Start Num: 24
Candidate Starts for Stardrop_37:
(7, 29142), (12, 29229), (20, 29262), (Start: 24 @29277 has 116 MA's), (34, 29355), (48, 29457), (49, 29466),

Gene: Stayer_36 Start: 27772, Stop: 28011, Start Num: 24
Candidate Starts for Stayer_36:
(Start: 24 @27772 has 116 MA's), (30, 27829), (32, 27841), (40, 27895), (45, 27928),

Gene: Synepsis_37 Start: 30426, Stop: 30668, Start Num: 24
Candidate Starts for Synepsis_37:
(16, 30390), (Start: 24 @30426 has 116 MA's), (36, 30510), (49, 30615), (51, 30654), (52, 30663),

Gene: TaidaOne_37 Start: 28595, Stop: 28843, Start Num: 24
Candidate Starts for TaidaOne_37:

(Start: 22 @28583 has 6 MA's), (Start: 24 @28595 has 116 MA's), (39, 28733), (40, 28736), (48, 28796),

Gene: Tatanka_37 Start: 30589, Stop: 30831, Start Num: 24
Candidate Starts for Tatanka_37:
(16, 30553), (Start: 24 @30589 has 116 MA's), (36, 30673), (49, 30778),

Gene: Teacup_39 Start: 30574, Stop: 30816, Start Num: 24
Candidate Starts for Teacup_39:
(16, 30538), (Start: 24 @30574 has 116 MA's), (36, 30658), (49, 30763),

Gene: Tenney120_38 Start: 29158, Stop: 29397, Start Num: 24
Candidate Starts for Tenney120_38:
(7, 29023), (12, 29110), (20, 29143), (Start: 24 @29158 has 116 MA's), (34, 29236), (48, 29338), (49, 29347),

Gene: Tenno_38 Start: 31187, Stop: 31429, Start Num: 24
Candidate Starts for Tenno_38:
(16, 31151), (Start: 24 @31187 has 116 MA's), (36, 31271), (49, 31376), (51, 31415), (52, 31424),

Gene: Thiqqums_34 Start: 26745, Stop: 26987, Start Num: 24
Candidate Starts for Thiqqums_34:
(Start: 24 @26745 has 116 MA's), (48, 26934),

Gene: TieDye_36 Start: 27639, Stop: 27887, Start Num: 24
Candidate Starts for TieDye_36:
(Start: 22 @27627 has 6 MA's), (Start: 24 @27639 has 116 MA's), (39, 27777), (40, 27780), (48, 27840),

Gene: Tipton_40 Start: 30627, Stop: 30863, Start Num: 24
Candidate Starts for Tipton_40:
(18, 30609), (Start: 24 @30627 has 116 MA's), (44, 30777), (49, 30816),

Gene: Tokki_39 Start: 30282, Stop: 30518, Start Num: 24
Candidate Starts for Tokki_39:
(18, 30264), (Start: 24 @30282 has 116 MA's), (44, 30432), (49, 30471),

Gene: TonyStarch_36 Start: 27744, Stop: 27992, Start Num: 24
Candidate Starts for TonyStarch_36:
(Start: 22 @27732 has 6 MA's), (Start: 24 @27744 has 116 MA's), (39, 27882), (40, 27885), (48, 27945),

Gene: Tribby_37 Start: 27633, Stop: 27854, Start Num: 23
Candidate Starts for Tribby_37:
(Start: 23 @27633 has 21 MA's),

Gene: TrixiePhattel_37 Start: 28923, Stop: 29162, Start Num: 24
Candidate Starts for TrixiePhattel_37:
(20, 28908), (Start: 24 @28923 has 116 MA's), (49, 29112),

Gene: Truckee_36 Start: 30146, Stop: 30382, Start Num: 24
Candidate Starts for Truckee_36:
(Start: 24 @30146 has 116 MA's), (49, 30335),

Gene: Trustiboi_39 Start: 30978, Stop: 31220, Start Num: 24
Candidate Starts for Trustiboi_39:
(16, 30942), (Start: 24 @30978 has 116 MA's), (36, 31062), (49, 31167), (51, 31206), (52, 31215),

Gene: Uzumaki_36 Start: 29214, Stop: 29453, Start Num: 24
Candidate Starts for Uzumaki_36:
(7, 29079), (12, 29166), (20, 29199), (Start: 24 @29214 has 116 MA's), (34, 29292), (48, 29394), (49, 29403),

Gene: Westerlin_39 Start: 32070, Stop: 32312, Start Num: 24
Candidate Starts for Westerlin_39:
(16, 32034), (Start: 24 @32070 has 116 MA's), (36, 32154), (49, 32259), (51, 32298), (52, 32307),

Gene: Wigberry_36 Start: 27317, Stop: 27565, Start Num: 24
Candidate Starts for Wigberry_36:
(Start: 22 @27305 has 6 MA's), (Start: 24 @27317 has 116 MA's), (39, 27452),

Gene: Xenomorph_34 Start: 27589, Stop: 27810, Start Num: 23
Candidate Starts for Xenomorph_34:
(Start: 23 @27589 has 21 MA's),

Gene: YoshiYama_37 Start: 27854, Stop: 28075, Start Num: 23
Candidate Starts for YoshiYama_37:
(Start: 23 @27854 has 21 MA's),

Gene: Zeina_38 Start: 29069, Stop: 29308, Start Num: 24
Candidate Starts for Zeina_38:
(7, 28934), (12, 29021), (20, 29054), (Start: 24 @29069 has 116 MA's), (34, 29147), (48, 29249), (49, 29258),

Gene: Zippen_40 Start: 31377, Stop: 31604, Start Num: 24
Candidate Starts for Zippen_40:
(Start: 24 @31377 has 116 MA's), (25, 31380),