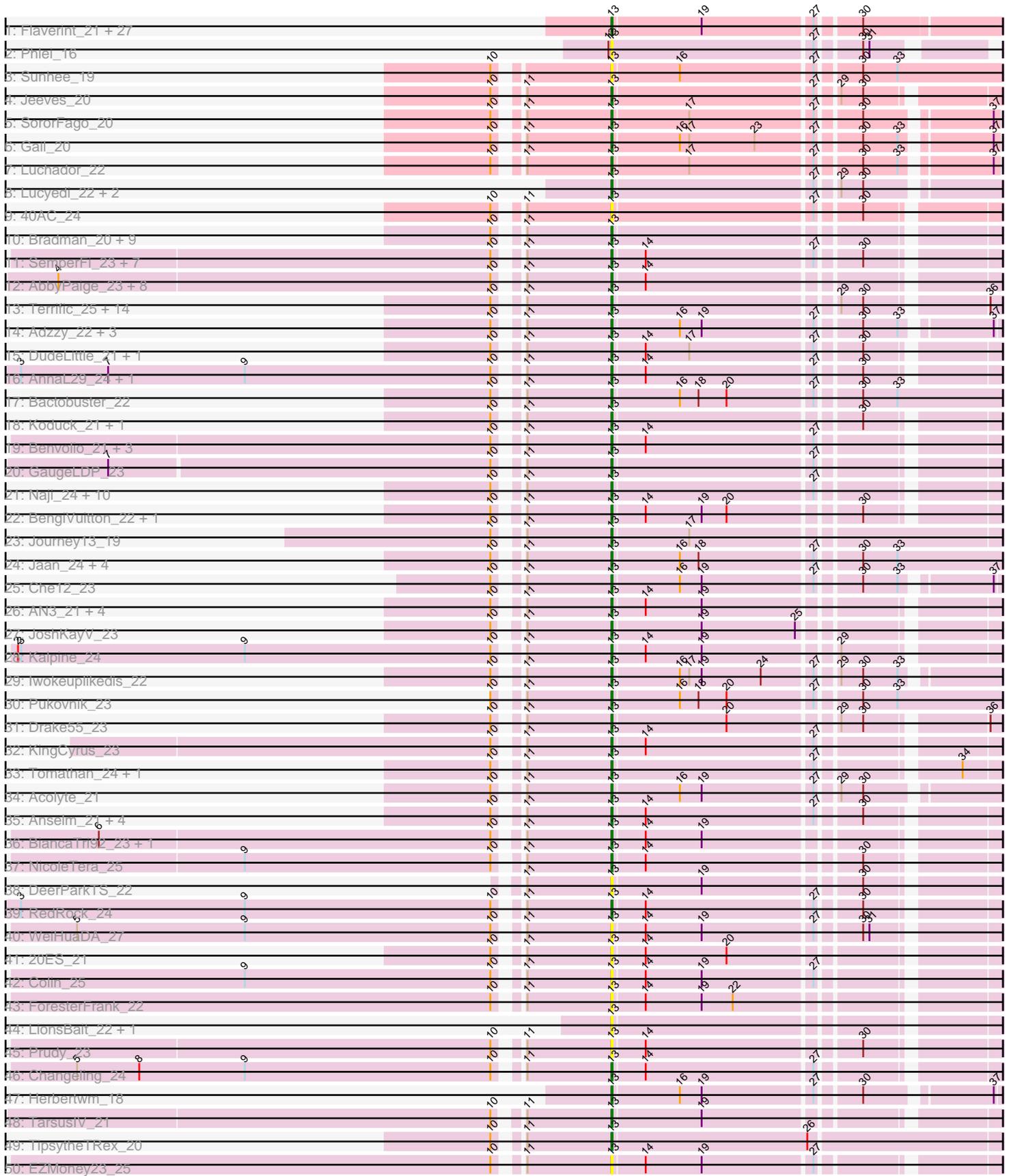
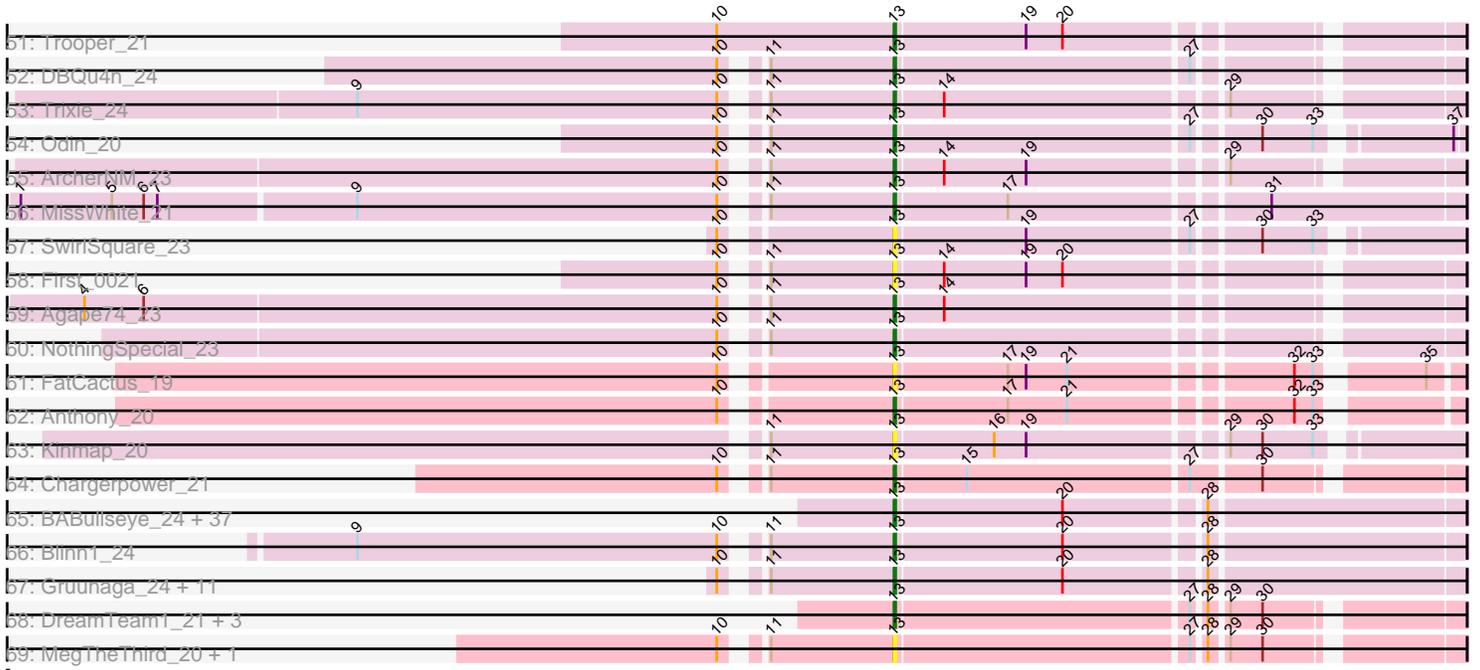


Pham 283474



Pham 283474



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 283474 Report

This analysis was run 02/23/26 on database version 636.

Pham number 283474 has 223 members, 36 are drafts.

Phages represented in each track:

- Track 1 : Flaverint_21, Salz_21, Hutc2_21, Insomnia_21, Gilberta_21, Timothy_21, Kimba_21, Joselito_21, Jabith_21, Bachome_21, Snape_21, Munch_21, Aneem_21, Lucivia_21, Mulciber_21, Et2Brutus_20, Bowtie_21, Ebony_21, Petersenfast_20, Mabel_21, MaCh_21, Sham4_21, Orange_21, Fibonacci_21, Wolpertinger_20, Saskia_20, Bud_21, TinyTimmy_21
- Track 2 : Phlei_16
- Track 3 : Sunhee_19
- Track 4 : Jeeves_20
- Track 5 : SororFago_20
- Track 6 : Gail_20
- Track 7 : Luchador_22
- Track 8 : Lucyedi_22, PainterBoy_22, EagleEye_23
- Track 9 : 40AC_24
- Track 10 : Bradman_20, Miko_24, Serenity_20, Quokka_19, Lokk_24, MajorMajor_20, Jsquared_20, BabyBack_23, Rachaly_24, BobSwaget_24
- Track 11 : SemperFi_23, SweetiePie_21, QueenBeesly_21, Georgie2_22, FiringLine_21, Crucio_21, Power_21, SnapTap_21
- Track 12 : AbbyPaige_23, Dignity_23, Turbido_23, Buggy_23, Jerm_23, Leviathan_23, LilTurb_23, Smeagan_23, Whabigail7_23
- Track 13 : Terrific_25, Baehexic_22, Gratitude_22, Equemioh13_23, MiculUcigas_21, Sknot_21, NaSiaTalie_21, Larenn_22, Malec_22, Centaur_23, Flare16_21, WideWale_23, Piro94_22, HarryHoudini_23, Updawg_23
- Track 14 : Adzzy_22, Superchunk_20, Caraxes_20, Ph8s_22
- Track 15 : DudeLittle_21, Dalmatian_21
- Track 16 : AnnaL29_24, Loser_24
- Track 17 : Bactobuster_22
- Track 18 : Koduck_21, L5_21
- Track 19 : Benvolio_21, Echild_21, ChipMunk_23, EvilGenius_23
- Track 20 : GaugeLDP_23
- Track 21 : Naji_24, ANI8_24, StarStuff_24, Travvers_24, D29_21, C3_19, Duplo_24, VC3_24, Kerberos_24, AN9_24, D32_24
- Track 22 : BengiVuitton_22, Deloris_22
- Track 23 : Journey13_19
- Track 24 : Jaan_24, Landor_22, IronMan_23, Phaded_24, Tristan_22
- Track 25 : Che12_23
- Track 26 : AN3_21, XianYue_21, LadyBird_21, CRB1_21, VA6_21
- Track 27 : JoshKayV_23

- Track 28 : Kalpine_24
- Track 29 : Iwokeuplikedis_22
- Track 30 : Pukovnik_23
- Track 31 : Drake55_23
- Track 32 : KingCyrus_23
- Track 33 : Tomathan_24, Pomar16_24
- Track 34 : Acolyte_21
- Track 35 : Anselm_21, Fameo_21, QueenB2_21, Retro23_21, Heffalump_23
- Track 36 : BiancaTri92_23, Leogania_23
- Track 37 : NicoleTera_25
- Track 38 : DeerParkTS_22
- Track 39 : RedRock_24
- Track 40 : WeiHuaDA_27
- Track 41 : 20ES_21
- Track 42 : Colin_25
- Track 43 : ForesterFrank_22
- Track 44 : LionsBait_22, HippoHollow_22
- Track 45 : Prudy_23
- Track 46 : Changeling_24
- Track 47 : Herbertwm_18
- Track 48 : TarsusIV_21
- Track 49 : TipsytheTRex_20
- Track 50 : EZMoney23_25
- Track 51 : Trooper_21
- Track 52 : DBQu4n_24
- Track 53 : Trixie_24
- Track 54 : Odin_20
- Track 55 : ArcherNM_23
- Track 56 : MissWhite_21
- Track 57 : SwirlSquare_23
- Track 58 : First_0021
- Track 59 : Agape74_23
- Track 60 : NothingSpecial_23
- Track 61 : FatCactus_19
- Track 62 : Anthony_20
- Track 63 : Kinmap_20
- Track 64 : Chargerpower_21
- Track 65 : BABullseye_24, Newrala_24, Yokurt_24, SuperCallie99_24, BennyP_24, Chartreuse_24, EricB_24, Dorothea_24, Garak_25, Kipper29_24, Pmask_24, Wiks_24, BlessJoy_24, Helmet_24, JewelBug_24, DaVinci_24, CloudWang3_24, Kazan_24, Temprado_24, Cookiedough_24, SuperAwesome_24, DelvinSonDorr_23, Polyphemus_24, Jordennis_24, McFly_24, ToneTone_22, GreedyLawyer_24, Zaka_24, Isiphiwo_24, SmellyB_24, Neeharika16_24, Hoot_24, Zulu_24, Candra_24, Priamo_24, VohminGhazi_24, Lilbunny_24, WunderPhul_24
- Track 66 : Blinn1_24
- Track 67 : Gruunaga_24, Roksolana_24, Indra_24, Hexamo_24, Gladiator_24, Rifter_24, Tucker_24, Hammer_24, Jeffabunny_24, Blue7_24, Artemis2UCLA_24, Koko_24
- Track 68 : DreamTeam1_21, Charm_21, SheaKeira_21, Klodlith_21
- Track 69 : MegTheThird_20, Celestiallunch_21

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

The start number called the most often in the published annotations is 13, it was called in 187 of the 187 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 20ES_21, 40AC_24, AN3_21, AN9_24, ANI8_24, AbbyPaige_23, Acolyte_21, Adzzy_22, Agape74_23, Aneem_21, AnnaL29_24, Anselm_21, Anthony_20, ArcherNM_23, Artemis2UCLA_24, BABullseye_24, BabyBack_23, Bachome_21, Bactobuster_22, Baehexic_22, BengiVuitton_22, BennyP_24, Benvolio_21, BiancaTri92_23, BlessJoy_24, Blinn1_24, Blue7_24, BobSwaget_24, Bowtie_21, Bradman_20, Bud_21, Buggy_23, C3_19, CRB1_21, Candra_24, Caraxes_20, Celestiallunch_21, Centaur_23, Changeling_24, Chargerpower_21, Charm_21, Chartreuse_24, Che12_23, ChipMunk_23, CloudWang3_24, Colin_25, Cookiedough_24, Crucio_21, D29_21, D32_24, DBQu4n_24, DaVinci_24, Dalmatian_21, DeerParkTS_22, Deloris_22, DelvinSonDorr_23, Dignity_23, Dorothea_24, Drake55_23, DreamTeam1_21, DudeLittle_21, Duplo_24, EZMoney23_25, EagleEye_23, Ebony_21, Echild_21, Equemioh13_23, EricB_24, Et2Brutus_20, EvilGenius_23, Fameo_21, FatCactus_19, Fibonacci_21, FiringLine_21, First_0021, Flare16_21, Flaverint_21, ForesterFrank_22, Gail_20, Garak_25, GaugeLDP_23, Georgie2_22, Gilberta_21, Gladiator_24, Gratitude_22, GreedyLawyer_24, Gruunaga_24, Hammer_24, HarryHoudini_23, Heffalump_23, Helmet_24, Herbertwm_18, Hexamo_24, HippoHollow_22, Hoot_24, Hutc2_21, Indra_24, Insomnia_21, IronMan_23, Isiphiwo_24, Iwokeuplikedis_22, Jaan_24, Jabith_21, Jeeves_20, Jeffabunny_24, Jerm_23, JewelBug_24, Jordennis_24, Joselito_21, JoshKayV_23, Journey13_19, Jsquared_20, Kalpine_24, Kazan_24, Kerberos_24, Kimba_21, KingCyrus_23, Kinmap_20, Kipper29_24, Klodlith_21, Koduck_21, Koko_24, L5_21, LadyBird_21, Landor_22, Larenn_22, Leogania_23, Leviathan_23, LilTurb_23, Lilbunny_24, LionsBait_22, Lokk_24, Loser_24, Luchador_22, Lucivia_21, Lucyedi_22, MaCh_21, Mabel_21, MajorMajor_20, Malec_22, McFly_24, MegTheThird_20, MiculUcigas_21, Miko_24, MissWhite_21, Mulciber_21, Munch_21, NaSiaTalie_21, Naji_24, Neeharika16_24, Newrala_24, NicoleTera_25, NothingSpecial_23, Odin_20, Orange_21, PainterBoy_22, Petersenfast_20, Ph8s_22, Phaded_24, Phlei_16, Piro94_22, Pmask_24, Polyphemus_24, Pomar16_24, Power_21, Priamo_24, Prudy_23, Pukovnik_23, QueenB2_21, QueenBeesly_21, Quokka_19, Rachaly_24, RedRock_24, Retro23_21, Rifter_24, Roksolana_24, Salz_21, Saskia_20, SemperFi_23, Serenity_20, Sham4_21, SheaKeira_21, Sknot_21, Smeagan_23, SmellyB_24, SnapTap_21, Snape_21, SororFago_20, StarStuff_24, Sunhee_19, SuperAwesome_24, SuperCallie99_24, Superchunk_20, SweetiePie_21, SwirlSquare_23, TarsusIV_21, Temprado_24, Terrific_25, Timothy_21, TinyTimmy_21, TipsytheTRex_20, Tomathan_24, ToneTone_22, Travvers_24, Tristan_22, Trixie_24, Trooper_21, Tucker_24, Turbido_23, Updawg_23, VA6_21, VC3_24, VohminGhazi_24, WeiHuaDA_27, Whabigail7_23, WideWale_23, Wiks_24, Wolpertinger_20, WunderPhul_24, XianYue_21, Yokurt_24, Zaka_24, Zulu_24,

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

-

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

-

Summary by start number:

Start 13:

- Found in 223 of 223 (100.0%) of genes in pham
- Manual Annotations of this start: 187 of 187
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 20ES_21 (A2), 40AC_24 (A17), AN3_21 (A2), AN9_24 (A2), ANI8_24 (A2), AbbyPaige_23 (A2), Acolyte_21 (A2), Adzzy_22 (A2), Agape74_23 (A2), Aneem_21 (A11), AnnaL29_24 (A2), Anselm_21 (A2), Anthony_20 (A20), ArcherNM_23 (A2), Artemis2UCLA_24 (A6), BABullseye_24 (A6), BabyBack_23 (A2), Bachome_21 (A11), Bactobuster_22 (A2), Baehexic_22 (A2), BengiVuitton_22 (A2), BennyP_24 (A6), Benvolio_21 (A2), BiancaTri92_23 (A2), BlessJoy_24 (A6), Blinn1_24 (A6), Blue7_24 (A6), BobSwaget_24 (A2), Bowtie_21 (A11), Bradman_20 (A2), Bud_21 (A11), Buggy_23 (A2), C3_19 (A2), CRB1_21 (A2), Candra_24 (A6), Caraxes_20 (A2), Celestialunch_21 (A9), Centaur_23 (A2), Changeling_24 (A2), Chargerpower_21 (A22), Charm_21 (A9), Chartreuse_24 (A6), Che12_23 (A2), ChipMunk_23 (A2), CloudWang3_24 (A6), Colin_25 (A2), Cookiedough_24 (A6), Crucio_21 (A2), D29_21 (A2), D32_24 (A2), DBQu4n_24 (A2), DaVinci_24 (A6), Dalmatian_21 (A2), DeerParkTS_22 (A2), Deloris_22 (A2), DelvinSonDorr_23 (A6), Dignity_23 (A2), Dorothea_24 (A6), Drake55_23 (A2), DreamTeam1_21 (A9), DudeLittle_21 (A2), Duplo_24 (A2), EZMoney23_25 (A2), EagleEye_23 (A16), Ebony_21 (A11), Echild_21 (A2), Equemioh13_23 (A2), EricB_24 (A6), Et2Brutus_20 (A11), EvilGenius_23 (A2), Fameo_21 (A2), FatCactus_19 (A20), Fibonacci_21 (A11), FiringLine_21 (A2), First_0021 (A2), Flare16_21 (A2), Flaverint_21 (A11), ForesterFrank_22 (A2), Gail_20 (A14), Garak_25 (A6), GaugeLDP_23 (A2), Georgie2_22 (A2), Gilberta_21 (A11), Gladiator_24 (A6), Gratitude_22 (A2), GreedyLawyer_24 (A6), Gruunaga_24 (A6), Hammer_24 (A6), HarryHoudini_23 (A2), Heffalump_23 (A2), Helmet_24 (A6), Herbertwm_18 (A2), Hexamo_24 (A6), HippoHollow_22 (A2), Hoot_24 (A6), Hutc2_21 (A11), Indra_24 (A6), Insomnia_21 (A11), IronMan_23 (A2), Isiphiwo_24 (A6), Iwokeuplikedis_22 (A2), Jaan_24 (A2), Jabith_21 (A11), Jeeves_20 (A14), Jeffabunny_24 (A6), Jerm_23 (A2), JewelBug_24 (A6), Jordennis_24 (A6), Joselito_21 (A11), JoshKayV_23 (A2), Journey13_19 (A2), Jsquared_20 (A2), Kalpine_24 (A2), Kazan_24 (A6), Kerberos_24 (A2), Kimba_21 (A11), KingCyrus_23 (A2), Kinmap_20 (A21), Kipper29_24 (A6), Klodlith_21 (A9), Koduck_21 (A2), Koko_24 (A6), L5_21 (A2), LadyBird_21 (A2), Landor_22 (A2), Larenn_22 (A2), Leogania_23 (A2), Leviathan_23 (A2), LiITurb_23 (A2), Lilbunny_24 (A6), LionsBait_22 (A2), Lokk_24 (A2), Loser_24 (A2), Luchador_22 (A14), Lucivia_21 (A11), Lucyedi_22 (A16), MaCh_21 (A11), Mabel_21 (A11), MajorMajor_20 (A2), Malec_22 (A2), McFly_24 (A6), MegTheThird_20 (A9), MiculUcigas_21 (A2), Miko_24 (A2), MissWhite_21 (A2), Mulciber_21 (A11), Munch_21 (A11), NaSiaTalie_21 (A2), Naji_24 (A2), Neeharika16_24 (A6), Newrala_24 (A6), NicoleTera_25 (A2), NothingSpecial_23 (A2), Odin_20 (A2), Orange_21 (A11), PainterBoy_22 (A16), Petersenfast_20 (A11), Ph8s_22 (A2), Phaded_24 (A2), Phlei_16 (A13), Piro94_22 (A2), Pmask_24 (A6), Polyphemus_24 (A6), Pomar16_24 (A2), Power_21 (A2), Priamo_24 (A6), Prudy_23 (A2), Pukovnik_23 (A2), QueenB2_21 (A2), QueenBeesly_21 (A2), Quokka_19 (A2), Rachaly_24 (A2), RedRock_24 (A2), Retro23_21 (A2), Rifter_24 (A6), Roksolana_24 (A6), Salz_21 (A11), Saskia_20 (A11), SemperFi_23 (A2), Serenity_20 (A2), Sham4_21 (A11), SheaKeira_21 (A9), Sknot_21 (A2), Smeagan_23 (A2), SmellyB_24 (A6), SnapTap_21 (A2), Snape_21 (A11), SororFago_20 (A14), StarStuff_24 (A2), Sunhee_19 (A14), SuperAwesome_24 (A6), SuperCallie99_24 (A6), Superchunk_20 (A2), SweetiePie_21 (A2), SwirlSquare_23 (A2), TarsusIV_21 (A2), Temprado_24 (A6), Terrific_25 (A2),

Timothy_21 (A11), TinyTimmy_21 (A11), TipsytheTRex_20 (A2), Tomathan_24 (A2), ToneTone_22 (A6), Travvers_24 (A2), Tristan_22 (A2), Trixie_24 (A2), Trooper_21 (A2), Tucker_24 (A6), Turbido_23 (A2), Updawg_23 (A2), VA6_21 (A2), VC3_24 (A2), VohminGhazi_24 (A6), WeiHuaDA_27 (A2), Whabigail7_23 (A2), WideWale_23 (A2), Wiks_24 (A6), Wolpertinger_20 (A11), WunderPhul_24 (A6), XianYue_21 (A2), Yokurt_24 (A6), Zaka_24 (A6), Zulu_24 (A6),

Summary by clusters:

There are 11 clusters represented in this pham: A20, A14, A17, A16, A11, A13, A21, A22, A2, A6, A9,

Info for manual annotations of cluster A11:

- Start number 13 was manually annotated 24 times for cluster A11.

Info for manual annotations of cluster A14:

- Start number 13 was manually annotated 4 times for cluster A14.

Info for manual annotations of cluster A16:

- Start number 13 was manually annotated 3 times for cluster A16.

Info for manual annotations of cluster A2:

- Start number 13 was manually annotated 104 times for cluster A2.

Info for manual annotations of cluster A20:

- Start number 13 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster A22:

- Start number 13 was manually annotated 1 time for cluster A22.

Info for manual annotations of cluster A6:

- Start number 13 was manually annotated 47 times for cluster A6.

Info for manual annotations of cluster A9:

- Start number 13 was manually annotated 3 times for cluster A9.

Gene Information:

Gene: 20ES_21 Start: 14319, Stop: 14654, Start Num: 13

Candidate Starts for 20ES_21:

(10, 14223), (11, 14238), (Start: 13 @14319 has 187 MA's), (14, 14349), (20, 14427),

Gene: 40AC_24 Start: 16345, Stop: 16680, Start Num: 13

Candidate Starts for 40AC_24:

(10, 16249), (11, 16264), (Start: 13 @16345 has 187 MA's), (27, 16531), (30, 16567),

Gene: AN3_21 Start: 14309, Stop: 14644, Start Num: 13

Candidate Starts for AN3_21:

(10, 14213), (11, 14228), (Start: 13 @14309 has 187 MA's), (14, 14339), (19, 14393),

Gene: AN9_24 Start: 14296, Stop: 14631, Start Num: 13

Candidate Starts for AN9_24:

(10, 14200), (11, 14215), (Start: 13 @14296 has 187 MA's), (27, 14482),

Gene: ANI8_24 Start: 14296, Stop: 14631, Start Num: 13

Candidate Starts for ANI8_24:

(10, 14200), (11, 14215), (Start: 13 @14296 has 187 MA's), (27, 14482),

Gene: AbbyPaige_23 Start: 14772, Stop: 15107, Start Num: 13

Candidate Starts for AbbyPaige_23:

(4, 14262), (10, 14676), (11, 14691), (Start: 13 @14772 has 187 MA's), (14, 14802),

Gene: Acolyte_21 Start: 14440, Stop: 14778, Start Num: 13

Candidate Starts for Acolyte_21:

(10, 14344), (11, 14359), (Start: 13 @14440 has 187 MA's), (16, 14503), (19, 14524), (27, 14626), (29, 14641), (30, 14662),

Gene: Adzzy_22 Start: 13055, Stop: 13390, Start Num: 13

Candidate Starts for Adzzy_22:

(10, 12959), (11, 12974), (Start: 13 @13055 has 187 MA's), (16, 13118), (19, 13139), (27, 13241), (30, 13277), (33, 13310), (37, 13385),

Gene: Agape74_23 Start: 14772, Stop: 15107, Start Num: 13

Candidate Starts for Agape74_23:

(4, 14262), (6, 14301), (10, 14676), (11, 14691), (Start: 13 @14772 has 187 MA's), (14, 14802),

Gene: Aneem_21 Start: 14837, Stop: 15187, Start Num: 13

Candidate Starts for Aneem_21:

(Start: 13 @14837 has 187 MA's), (19, 14921), (27, 15023), (30, 15059),

Gene: AnnaL29_24 Start: 16167, Stop: 16502, Start Num: 13

Candidate Starts for AnnaL29_24:

(3, 15618), (7, 15702), (9, 15834), (10, 16071), (11, 16086), (Start: 13 @16167 has 187 MA's), (14, 16197), (27, 16353), (30, 16389),

Gene: Anselm_21 Start: 14416, Stop: 14751, Start Num: 13

Candidate Starts for Anselm_21:

(10, 14320), (11, 14335), (Start: 13 @14416 has 187 MA's), (14, 14446), (27, 14602), (30, 14638),

Gene: Anthony_20 Start: 12465, Stop: 12797, Start Num: 13

Candidate Starts for Anthony_20:

(10, 12369), (Start: 13 @12465 has 187 MA's), (17, 12537), (21, 12576), (32, 12708), (33, 12720),

Gene: ArcherNM_23 Start: 16110, Stop: 16445, Start Num: 13

Candidate Starts for ArcherNM_23:

(10, 16014), (11, 16029), (Start: 13 @16110 has 187 MA's), (14, 16140), (19, 16194), (29, 16311),

Gene: Artemis2UCLA_24 Start: 14295, Stop: 14648, Start Num: 13

Candidate Starts for Artemis2UCLA_24:

(10, 14199), (11, 14214), (Start: 13 @14295 has 187 MA's), (20, 14403), (28, 14487),

Gene: BABullseye_24 Start: 14408, Stop: 14761, Start Num: 13
Candidate Starts for BABullseye_24:
(Start: 13 @14408 has 187 MA's), (20, 14516), (28, 14600),

Gene: BabyBack_23 Start: 15949, Stop: 16284, Start Num: 13
Candidate Starts for BabyBack_23:
(10, 15853), (11, 15868), (Start: 13 @15949 has 187 MA's),

Gene: Bachome_21 Start: 14834, Stop: 15184, Start Num: 13
Candidate Starts for Bachome_21:
(Start: 13 @14834 has 187 MA's), (19, 14918), (27, 15020), (30, 15056),

Gene: Bactobuster_22 Start: 16041, Stop: 16397, Start Num: 13
Candidate Starts for Bactobuster_22:
(10, 15945), (11, 15960), (Start: 13 @16041 has 187 MA's), (16, 16104), (18, 16122), (20, 16149), (27, 16227), (30, 16263), (33, 16296),

Gene: Baehexic_22 Start: 14819, Stop: 15154, Start Num: 13
Candidate Starts for Baehexic_22:
(10, 14723), (11, 14738), (Start: 13 @14819 has 187 MA's), (29, 15020), (30, 15041), (36, 15143),

Gene: BengiVuitton_22 Start: 14732, Stop: 15067, Start Num: 13
Candidate Starts for BengiVuitton_22:
(10, 14636), (11, 14651), (Start: 13 @14732 has 187 MA's), (14, 14762), (19, 14816), (20, 14840), (30, 14954),

Gene: BennyP_24 Start: 14417, Stop: 14770, Start Num: 13
Candidate Starts for BennyP_24:
(Start: 13 @14417 has 187 MA's), (20, 14525), (28, 14609),

Gene: Benvolio_21 Start: 14406, Stop: 14741, Start Num: 13
Candidate Starts for Benvolio_21:
(10, 14310), (11, 14325), (Start: 13 @14406 has 187 MA's), (14, 14436), (27, 14592),

Gene: BiancaTri92_23 Start: 16094, Stop: 16429, Start Num: 13
Candidate Starts for BiancaTri92_23:
(6, 15623), (10, 15998), (11, 16013), (Start: 13 @16094 has 187 MA's), (14, 16124), (19, 16178),

Gene: BlessJoy_24 Start: 14393, Stop: 14746, Start Num: 13
Candidate Starts for BlessJoy_24:
(Start: 13 @14393 has 187 MA's), (20, 14501), (28, 14585),

Gene: Blinn1_24 Start: 14450, Stop: 14803, Start Num: 13
Candidate Starts for Blinn1_24:
(9, 14117), (10, 14354), (11, 14369), (Start: 13 @14450 has 187 MA's), (20, 14558), (28, 14642),

Gene: Blue7_24 Start: 14385, Stop: 14738, Start Num: 13
Candidate Starts for Blue7_24:
(10, 14289), (11, 14304), (Start: 13 @14385 has 187 MA's), (20, 14493), (28, 14577),

Gene: BobSwaget_24 Start: 15969, Stop: 16304, Start Num: 13
Candidate Starts for BobSwaget_24:
(10, 15873), (11, 15888), (Start: 13 @15969 has 187 MA's),

Gene: Bowtie_21 Start: 14837, Stop: 15187, Start Num: 13
Candidate Starts for Bowtie_21:
(Start: 13 @14837 has 187 MA's), (19, 14921), (27, 15023), (30, 15059),

Gene: Bradman_20 Start: 13229, Stop: 13564, Start Num: 13
Candidate Starts for Bradman_20:
(10, 13133), (11, 13148), (Start: 13 @13229 has 187 MA's),

Gene: Bud_21 Start: 14843, Stop: 15193, Start Num: 13
Candidate Starts for Bud_21:
(Start: 13 @14843 has 187 MA's), (19, 14927), (27, 15029), (30, 15065),

Gene: Buggy_23 Start: 14771, Stop: 15106, Start Num: 13
Candidate Starts for Buggy_23:
(4, 14261), (10, 14675), (11, 14690), (Start: 13 @14771 has 187 MA's), (14, 14801),

Gene: C3_19 Start: 14296, Stop: 14631, Start Num: 13
Candidate Starts for C3_19:
(10, 14200), (11, 14215), (Start: 13 @14296 has 187 MA's), (27, 14482),

Gene: CRB1_21 Start: 14291, Stop: 14626, Start Num: 13
Candidate Starts for CRB1_21:
(10, 14195), (11, 14210), (Start: 13 @14291 has 187 MA's), (14, 14321), (19, 14375),

Gene: Candra_24 Start: 14451, Stop: 14804, Start Num: 13
Candidate Starts for Candra_24:
(Start: 13 @14451 has 187 MA's), (20, 14559), (28, 14643),

Gene: Caraxes_20 Start: 12955, Stop: 13290, Start Num: 13
Candidate Starts for Caraxes_20:
(10, 12859), (11, 12874), (Start: 13 @12955 has 187 MA's), (16, 13018), (19, 13039), (27, 13141), (30, 13177), (33, 13210), (37, 13285),

Gene: Celestiallunch_21 Start: 13246, Stop: 13581, Start Num: 13
Candidate Starts for Celestiallunch_21:
(10, 13150), (11, 13165), (Start: 13 @13246 has 187 MA's), (27, 13432), (28, 13438), (29, 13447), (30, 13468),

Gene: Centaur_23 Start: 14797, Stop: 15132, Start Num: 13
Candidate Starts for Centaur_23:
(10, 14701), (11, 14716), (Start: 13 @14797 has 187 MA's), (29, 14998), (30, 15019), (36, 15121),

Gene: Changeling_24 Start: 16162, Stop: 16497, Start Num: 13
Candidate Starts for Changeling_24:
(5, 15667), (8, 15727), (9, 15829), (10, 16066), (11, 16081), (Start: 13 @16162 has 187 MA's), (14, 16192), (27, 16348),

Gene: Chargerpower_21 Start: 13539, Stop: 13880, Start Num: 13
Candidate Starts for Chargerpower_21:
(10, 13443), (11, 13458), (Start: 13 @13539 has 187 MA's), (15, 13584), (27, 13725), (30, 13767),

Gene: Charm_21 Start: 13258, Stop: 13593, Start Num: 13

Candidate Starts for Charm_21:

(Start: 13 @13258 has 187 MA's), (27, 13444), (28, 13450), (29, 13459), (30, 13480),

Gene: Chartreuse_24 Start: 14364, Stop: 14717, Start Num: 13

Candidate Starts for Chartreuse_24:

(Start: 13 @14364 has 187 MA's), (20, 14472), (28, 14556),

Gene: Che12_23 Start: 13221, Stop: 13556, Start Num: 13

Candidate Starts for Che12_23:

(10, 13125), (11, 13140), (Start: 13 @13221 has 187 MA's), (16, 13284), (19, 13305), (27, 13407), (30, 13443), (33, 13476), (37, 13551),

Gene: ChipMunk_23 Start: 14704, Stop: 15039, Start Num: 13

Candidate Starts for ChipMunk_23:

(10, 14608), (11, 14623), (Start: 13 @14704 has 187 MA's), (14, 14734), (27, 14890),

Gene: CloudWang3_24 Start: 14395, Stop: 14748, Start Num: 13

Candidate Starts for CloudWang3_24:

(Start: 13 @14395 has 187 MA's), (20, 14503), (28, 14587),

Gene: Colin_25 Start: 16001, Stop: 16336, Start Num: 13

Candidate Starts for Colin_25:

(9, 15668), (10, 15905), (11, 15920), (Start: 13 @16001 has 187 MA's), (14, 16031), (19, 16085), (27, 16187),

Gene: Cookiedough_24 Start: 14408, Stop: 14761, Start Num: 13

Candidate Starts for Cookiedough_24:

(Start: 13 @14408 has 187 MA's), (20, 14516), (28, 14600),

Gene: Crucio_21 Start: 14251, Stop: 14586, Start Num: 13

Candidate Starts for Crucio_21:

(10, 14155), (11, 14170), (Start: 13 @14251 has 187 MA's), (14, 14281), (27, 14437), (30, 14473),

Gene: D29_21 Start: 14205, Stop: 14540, Start Num: 13

Candidate Starts for D29_21:

(10, 14109), (11, 14124), (Start: 13 @14205 has 187 MA's), (27, 14391),

Gene: D32_24 Start: 14205, Stop: 14540, Start Num: 13

Candidate Starts for D32_24:

(10, 14109), (11, 14124), (Start: 13 @14205 has 187 MA's), (27, 14391),

Gene: DBQu4n_24 Start: 14205, Stop: 14540, Start Num: 13

Candidate Starts for DBQu4n_24:

(10, 14109), (11, 14124), (Start: 13 @14205 has 187 MA's), (27, 14391),

Gene: DaVinci_24 Start: 14418, Stop: 14771, Start Num: 13

Candidate Starts for DaVinci_24:

(Start: 13 @14418 has 187 MA's), (20, 14526), (28, 14610),

Gene: Dalmatian_21 Start: 14401, Stop: 14736, Start Num: 13

Candidate Starts for Dalmatian_21:

(10, 14305), (11, 14320), (Start: 13 @14401 has 187 MA's), (14, 14431), (17, 14473), (27, 14587), (30, 14623),

Gene: DeerParkTS_22 Start: 14383, Stop: 14718, Start Num: 13
Candidate Starts for DeerParkTS_22:
(11, 14302), (Start: 13 @14383 has 187 MA's), (19, 14467), (30, 14605),

Gene: Deloris_22 Start: 14732, Stop: 15067, Start Num: 13
Candidate Starts for Deloris_22:
(10, 14636), (11, 14651), (Start: 13 @14732 has 187 MA's), (14, 14762), (19, 14816), (20, 14840), (30, 14954),

Gene: DelvinSonDorr_23 Start: 14408, Stop: 14761, Start Num: 13
Candidate Starts for DelvinSonDorr_23:
(Start: 13 @14408 has 187 MA's), (20, 14516), (28, 14600),

Gene: Dignity_23 Start: 14716, Stop: 15051, Start Num: 13
Candidate Starts for Dignity_23:
(4, 14206), (10, 14620), (11, 14635), (Start: 13 @14716 has 187 MA's), (14, 14746),

Gene: Dorothea_24 Start: 14419, Stop: 14772, Start Num: 13
Candidate Starts for Dorothea_24:
(Start: 13 @14419 has 187 MA's), (20, 14527), (28, 14611),

Gene: Drake55_23 Start: 14815, Stop: 15150, Start Num: 13
Candidate Starts for Drake55_23:
(10, 14719), (11, 14734), (Start: 13 @14815 has 187 MA's), (20, 14923), (29, 15016), (30, 15037), (36, 15139),

Gene: DreamTeam1_21 Start: 13258, Stop: 13593, Start Num: 13
Candidate Starts for DreamTeam1_21:
(Start: 13 @13258 has 187 MA's), (27, 13444), (28, 13450), (29, 13459), (30, 13480),

Gene: DudeLittle_21 Start: 14403, Stop: 14738, Start Num: 13
Candidate Starts for DudeLittle_21:
(10, 14307), (11, 14322), (Start: 13 @14403 has 187 MA's), (14, 14433), (17, 14475), (27, 14589), (30, 14625),

Gene: Duplo_24 Start: 14246, Stop: 14581, Start Num: 13
Candidate Starts for Duplo_24:
(10, 14150), (11, 14165), (Start: 13 @14246 has 187 MA's), (27, 14432),

Gene: EZMoney23_25 Start: 16290, Stop: 16625, Start Num: 13
Candidate Starts for EZMoney23_25:
(10, 16194), (11, 16209), (Start: 13 @16290 has 187 MA's), (14, 16320), (19, 16374), (27, 16476),

Gene: EagleEye_23 Start: 14531, Stop: 14869, Start Num: 13
Candidate Starts for EagleEye_23:
(Start: 13 @14531 has 187 MA's), (27, 14717), (29, 14732), (30, 14753),

Gene: Ebony_21 Start: 14886, Stop: 15236, Start Num: 13
Candidate Starts for Ebony_21:
(Start: 13 @14886 has 187 MA's), (19, 14970), (27, 15072), (30, 15108),

Gene: Echild_21 Start: 14406, Stop: 14741, Start Num: 13

Candidate Starts for Echild_21:

(10, 14310), (11, 14325), (Start: 13 @14406 has 187 MA's), (14, 14436), (27, 14592),

Gene: Equemioh13_23 Start: 14800, Stop: 15135, Start Num: 13

Candidate Starts for Equemioh13_23:

(10, 14704), (11, 14719), (Start: 13 @14800 has 187 MA's), (29, 15001), (30, 15022), (36, 15124),

Gene: EricB_24 Start: 14408, Stop: 14761, Start Num: 13

Candidate Starts for EricB_24:

(Start: 13 @14408 has 187 MA's), (20, 14516), (28, 14600),

Gene: Et2Brutus_20 Start: 14840, Stop: 15190, Start Num: 13

Candidate Starts for Et2Brutus_20:

(Start: 13 @14840 has 187 MA's), (19, 14924), (27, 15026), (30, 15062),

Gene: EvilGenius_23 Start: 14714, Stop: 15049, Start Num: 13

Candidate Starts for EvilGenius_23:

(10, 14618), (11, 14633), (Start: 13 @14714 has 187 MA's), (14, 14744), (27, 14900),

Gene: Fameo_21 Start: 14329, Stop: 14664, Start Num: 13

Candidate Starts for Fameo_21:

(10, 14233), (11, 14248), (Start: 13 @14329 has 187 MA's), (14, 14359), (27, 14515), (30, 14551),

Gene: FatCactus_19 Start: 12396, Stop: 12728, Start Num: 13

Candidate Starts for FatCactus_19:

(10, 12300), (Start: 13 @12396 has 187 MA's), (17, 12468), (19, 12480), (21, 12507), (32, 12639), (33, 12651), (35, 12708),

Gene: Fibonacci_21 Start: 14840, Stop: 15190, Start Num: 13

Candidate Starts for Fibonacci_21:

(Start: 13 @14840 has 187 MA's), (19, 14924), (27, 15026), (30, 15062),

Gene: FiringLine_21 Start: 14251, Stop: 14586, Start Num: 13

Candidate Starts for FiringLine_21:

(10, 14155), (11, 14170), (Start: 13 @14251 has 187 MA's), (14, 14281), (27, 14437), (30, 14473),

Gene: First_0021 Start: 14319, Stop: 14654, Start Num: 13

Candidate Starts for First_0021:

(10, 14223), (11, 14238), (Start: 13 @14319 has 187 MA's), (14, 14349), (19, 14403), (20, 14427),

Gene: Flare16_21 Start: 14358, Stop: 14693, Start Num: 13

Candidate Starts for Flare16_21:

(10, 14262), (11, 14277), (Start: 13 @14358 has 187 MA's), (29, 14559), (30, 14580), (36, 14682),

Gene: Flaverint_21 Start: 14837, Stop: 15187, Start Num: 13

Candidate Starts for Flaverint_21:

(Start: 13 @14837 has 187 MA's), (19, 14921), (27, 15023), (30, 15059),

Gene: ForesterFrank_22 Start: 15829, Stop: 16164, Start Num: 13

Candidate Starts for ForesterFrank_22:

(10, 15733), (11, 15748), (Start: 13 @15829 has 187 MA's), (14, 15859), (19, 15913), (22, 15943),

Gene: Gail_20 Start: 13431, Stop: 13766, Start Num: 13

Candidate Starts for Gail_20:

(10, 13335), (11, 13350), (Start: 13 @13431 has 187 MA's), (16, 13494), (17, 13503), (23, 13566), (27, 13617), (30, 13653), (33, 13686), (37, 13761),

Gene: Garak_25 Start: 14413, Stop: 14766, Start Num: 13

Candidate Starts for Garak_25:

(Start: 13 @14413 has 187 MA's), (20, 14521), (28, 14605),

Gene: GaugeLDP_23 Start: 15622, Stop: 15957, Start Num: 13

Candidate Starts for GaugeLDP_23:

(7, 15163), (10, 15526), (11, 15541), (Start: 13 @15622 has 187 MA's), (27, 15808),

Gene: Georgie2_22 Start: 14252, Stop: 14587, Start Num: 13

Candidate Starts for Georgie2_22:

(10, 14156), (11, 14171), (Start: 13 @14252 has 187 MA's), (14, 14282), (27, 14438), (30, 14474),

Gene: Gilberta_21 Start: 14834, Stop: 15184, Start Num: 13

Candidate Starts for Gilberta_21:

(Start: 13 @14834 has 187 MA's), (19, 14918), (27, 15020), (30, 15056),

Gene: Gladiator_24 Start: 14385, Stop: 14738, Start Num: 13

Candidate Starts for Gladiator_24:

(10, 14289), (11, 14304), (Start: 13 @14385 has 187 MA's), (20, 14493), (28, 14577),

Gene: Gratitude_22 Start: 14800, Stop: 15135, Start Num: 13

Candidate Starts for Gratitude_22:

(10, 14704), (11, 14719), (Start: 13 @14800 has 187 MA's), (29, 15001), (30, 15022), (36, 15124),

Gene: GreedyLawyer_24 Start: 14417, Stop: 14770, Start Num: 13

Candidate Starts for GreedyLawyer_24:

(Start: 13 @14417 has 187 MA's), (20, 14525), (28, 14609),

Gene: Gruunaga_24 Start: 14385, Stop: 14738, Start Num: 13

Candidate Starts for Gruunaga_24:

(10, 14289), (11, 14304), (Start: 13 @14385 has 187 MA's), (20, 14493), (28, 14577),

Gene: Hammer_24 Start: 14400, Stop: 14753, Start Num: 13

Candidate Starts for Hammer_24:

(10, 14304), (11, 14319), (Start: 13 @14400 has 187 MA's), (20, 14508), (28, 14592),

Gene: HarryHoudini_23 Start: 14815, Stop: 15150, Start Num: 13

Candidate Starts for HarryHoudini_23:

(10, 14719), (11, 14734), (Start: 13 @14815 has 187 MA's), (29, 15016), (30, 15037), (36, 15139),

Gene: Heffalump_23 Start: 16131, Stop: 16466, Start Num: 13

Candidate Starts for Heffalump_23:

(10, 16035), (11, 16050), (Start: 13 @16131 has 187 MA's), (14, 16161), (27, 16317), (30, 16353),

Gene: Helmet_24 Start: 14413, Stop: 14766, Start Num: 13

Candidate Starts for Helmet_24:

(Start: 13 @14413 has 187 MA's), (20, 14521), (28, 14605),

Gene: Herbertwm_18 Start: 13015, Stop: 13350, Start Num: 13

Candidate Starts for Herbertwm_18:
(Start: 13 @13015 has 187 MA's), (16, 13078), (19, 13099), (27, 13201), (30, 13237), (37, 13345),

Gene: Hexamo_24 Start: 14367, Stop: 14720, Start Num: 13
Candidate Starts for Hexamo_24:
(10, 14271), (11, 14286), (Start: 13 @14367 has 187 MA's), (20, 14475), (28, 14559),

Gene: HippoHollow_22 Start: 16071, Stop: 16406, Start Num: 13
Candidate Starts for HippoHollow_22:
(Start: 13 @16071 has 187 MA's),

Gene: Hoot_24 Start: 14396, Stop: 14749, Start Num: 13
Candidate Starts for Hoot_24:
(Start: 13 @14396 has 187 MA's), (20, 14504), (28, 14588),

Gene: Hutc2_21 Start: 14840, Stop: 15190, Start Num: 13
Candidate Starts for Hutc2_21:
(Start: 13 @14840 has 187 MA's), (19, 14924), (27, 15026), (30, 15062),

Gene: Indra_24 Start: 14412, Stop: 14765, Start Num: 13
Candidate Starts for Indra_24:
(10, 14316), (11, 14331), (Start: 13 @14412 has 187 MA's), (20, 14520), (28, 14604),

Gene: Insomnia_21 Start: 14889, Stop: 15239, Start Num: 13
Candidate Starts for Insomnia_21:
(Start: 13 @14889 has 187 MA's), (19, 14973), (27, 15075), (30, 15111),

Gene: IronMan_23 Start: 15997, Stop: 16353, Start Num: 13
Candidate Starts for IronMan_23:
(10, 15901), (11, 15916), (Start: 13 @15997 has 187 MA's), (16, 16060), (18, 16078), (27, 16183), (30, 16219), (33, 16252),

Gene: Isiphiwo_24 Start: 14408, Stop: 14761, Start Num: 13
Candidate Starts for Isiphiwo_24:
(Start: 13 @14408 has 187 MA's), (20, 14516), (28, 14600),

Gene: Iwokeuplikedis_22 Start: 14282, Stop: 14620, Start Num: 13
Candidate Starts for Iwokeuplikedis_22:
(10, 14186), (11, 14201), (Start: 13 @14282 has 187 MA's), (16, 14345), (17, 14354), (19, 14366), (24, 14423), (27, 14468), (29, 14483), (30, 14504), (33, 14537),

Gene: Jaan_24 Start: 16395, Stop: 16751, Start Num: 13
Candidate Starts for Jaan_24:
(10, 16299), (11, 16314), (Start: 13 @16395 has 187 MA's), (16, 16458), (18, 16476), (27, 16581), (30, 16617), (33, 16650),

Gene: Jabith_21 Start: 14889, Stop: 15239, Start Num: 13
Candidate Starts for Jabith_21:
(Start: 13 @14889 has 187 MA's), (19, 14973), (27, 15075), (30, 15111),

Gene: Jeeves_20 Start: 13462, Stop: 13797, Start Num: 13
Candidate Starts for Jeeves_20:
(10, 13366), (11, 13381), (Start: 13 @13462 has 187 MA's), (27, 13648), (29, 13663), (30, 13684),

Gene: Jeffabunny_24 Start: 14419, Stop: 14772, Start Num: 13
Candidate Starts for Jeffabunny_24:
(10, 14323), (11, 14338), (Start: 13 @14419 has 187 MA's), (20, 14527), (28, 14611),

Gene: Jerm_23 Start: 14732, Stop: 15067, Start Num: 13
Candidate Starts for Jerm_23:
(4, 14222), (10, 14636), (11, 14651), (Start: 13 @14732 has 187 MA's), (14, 14762),

Gene: JewelBug_24 Start: 14420, Stop: 14773, Start Num: 13
Candidate Starts for JewelBug_24:
(Start: 13 @14420 has 187 MA's), (20, 14528), (28, 14612),

Gene: Jordennis_24 Start: 14408, Stop: 14761, Start Num: 13
Candidate Starts for Jordennis_24:
(Start: 13 @14408 has 187 MA's), (20, 14516), (28, 14600),

Gene: Joselito_21 Start: 14837, Stop: 15187, Start Num: 13
Candidate Starts for Joselito_21:
(Start: 13 @14837 has 187 MA's), (19, 14921), (27, 15023), (30, 15059),

Gene: JoshKayV_23 Start: 14730, Stop: 15065, Start Num: 13
Candidate Starts for JoshKayV_23:
(10, 14634), (11, 14649), (Start: 13 @14730 has 187 MA's), (19, 14814), (25, 14904),

Gene: Journey13_19 Start: 13442, Stop: 13795, Start Num: 13
Candidate Starts for Journey13_19:
(10, 13346), (11, 13361), (Start: 13 @13442 has 187 MA's), (17, 13514),

Gene: Jsquared_20 Start: 13146, Stop: 13481, Start Num: 13
Candidate Starts for Jsquared_20:
(10, 13050), (11, 13065), (Start: 13 @13146 has 187 MA's),

Gene: Kalpine_24 Start: 16095, Stop: 16430, Start Num: 13
Candidate Starts for Kalpine_24:
(2, 15543), (3, 15546), (9, 15762), (10, 15999), (11, 16014), (Start: 13 @16095 has 187 MA's), (14, 16125), (19, 16179), (29, 16296),

Gene: Kazan_24 Start: 14423, Stop: 14776, Start Num: 13
Candidate Starts for Kazan_24:
(Start: 13 @14423 has 187 MA's), (20, 14531), (28, 14615),

Gene: Kerberos_24 Start: 14205, Stop: 14540, Start Num: 13
Candidate Starts for Kerberos_24:
(10, 14109), (11, 14124), (Start: 13 @14205 has 187 MA's), (27, 14391),

Gene: Kimba_21 Start: 14889, Stop: 15239, Start Num: 13
Candidate Starts for Kimba_21:
(Start: 13 @14889 has 187 MA's), (19, 14973), (27, 15075), (30, 15111),

Gene: KingCyrus_23 Start: 14704, Stop: 15039, Start Num: 13
Candidate Starts for KingCyrus_23:
(10, 14608), (11, 14623), (Start: 13 @14704 has 187 MA's), (14, 14734), (27, 14890),

Gene: Kinmap_20 Start: 14134, Stop: 14472, Start Num: 13

Candidate Starts for Kinmap_20:

(11, 14053), (Start: 13 @14134 has 187 MA's), (16, 14197), (19, 14218), (29, 14335), (30, 14356), (33, 14389),

Gene: Kipper29_24 Start: 14417, Stop: 14770, Start Num: 13

Candidate Starts for Kipper29_24:

(Start: 13 @14417 has 187 MA's), (20, 14525), (28, 14609),

Gene: Klodlith_21 Start: 13258, Stop: 13593, Start Num: 13

Candidate Starts for Klodlith_21:

(Start: 13 @13258 has 187 MA's), (27, 13444), (28, 13450), (29, 13459), (30, 13480),

Gene: Koduck_21 Start: 13484, Stop: 13819, Start Num: 13

Candidate Starts for Koduck_21:

(10, 13388), (11, 13403), (Start: 13 @13484 has 187 MA's), (30, 13706),

Gene: Koko_24 Start: 14411, Stop: 14764, Start Num: 13

Candidate Starts for Koko_24:

(10, 14315), (11, 14330), (Start: 13 @14411 has 187 MA's), (20, 14519), (28, 14603),

Gene: L5_21 Start: 13495, Stop: 13830, Start Num: 13

Candidate Starts for L5_21:

(10, 13399), (11, 13414), (Start: 13 @13495 has 187 MA's), (30, 13717),

Gene: LadyBird_21 Start: 14274, Stop: 14609, Start Num: 13

Candidate Starts for LadyBird_21:

(10, 14178), (11, 14193), (Start: 13 @14274 has 187 MA's), (14, 14304), (19, 14358),

Gene: Landor_22 Start: 16047, Stop: 16403, Start Num: 13

Candidate Starts for Landor_22:

(10, 15951), (11, 15966), (Start: 13 @16047 has 187 MA's), (16, 16110), (18, 16128), (27, 16233), (30, 16269), (33, 16302),

Gene: Larenn_22 Start: 14583, Stop: 14918, Start Num: 13

Candidate Starts for Larenn_22:

(10, 14487), (11, 14502), (Start: 13 @14583 has 187 MA's), (29, 14784), (30, 14805), (36, 14907),

Gene: Leogania_23 Start: 16451, Stop: 16786, Start Num: 13

Candidate Starts for Leogania_23:

(6, 15980), (10, 16355), (11, 16370), (Start: 13 @16451 has 187 MA's), (14, 16481), (19, 16535),

Gene: Leviathan_23 Start: 14764, Stop: 15099, Start Num: 13

Candidate Starts for Leviathan_23:

(4, 14254), (10, 14668), (11, 14683), (Start: 13 @14764 has 187 MA's), (14, 14794),

Gene: LilTurb_23 Start: 14791, Stop: 15126, Start Num: 13

Candidate Starts for LilTurb_23:

(4, 14281), (10, 14695), (11, 14710), (Start: 13 @14791 has 187 MA's), (14, 14821),

Gene: Lilbunny_24 Start: 14393, Stop: 14746, Start Num: 13

Candidate Starts for Lilbunny_24:

(Start: 13 @14393 has 187 MA's), (20, 14501), (28, 14585),

Gene: LionsBait_22 Start: 16065, Stop: 16400, Start Num: 13

Candidate Starts for LionsBait_22:

(Start: 13 @16065 has 187 MA's),

Gene: Lokk_24 Start: 15989, Stop: 16324, Start Num: 13

Candidate Starts for Lokk_24:

(10, 15893), (11, 15908), (Start: 13 @15989 has 187 MA's),

Gene: Loser_24 Start: 16091, Stop: 16426, Start Num: 13

Candidate Starts for Loser_24:

(3, 15542), (7, 15626), (9, 15758), (10, 15995), (11, 16010), (Start: 13 @16091 has 187 MA's), (14, 16121), (27, 16277), (30, 16313),

Gene: Luchador_22 Start: 14658, Stop: 14993, Start Num: 13

Candidate Starts for Luchador_22:

(10, 14562), (11, 14577), (Start: 13 @14658 has 187 MA's), (17, 14730), (27, 14844), (30, 14880), (33, 14913), (37, 14988),

Gene: Lucivia_21 Start: 14886, Stop: 15236, Start Num: 13

Candidate Starts for Lucivia_21:

(Start: 13 @14886 has 187 MA's), (19, 14970), (27, 15072), (30, 15108),

Gene: Lucyedi_22 Start: 14468, Stop: 14806, Start Num: 13

Candidate Starts for Lucyedi_22:

(Start: 13 @14468 has 187 MA's), (27, 14654), (29, 14669), (30, 14690),

Gene: MaCh_21 Start: 14834, Stop: 15184, Start Num: 13

Candidate Starts for MaCh_21:

(Start: 13 @14834 has 187 MA's), (19, 14918), (27, 15020), (30, 15056),

Gene: Mabel_21 Start: 14901, Stop: 15251, Start Num: 13

Candidate Starts for Mabel_21:

(Start: 13 @14901 has 187 MA's), (19, 14985), (27, 15087), (30, 15123),

Gene: MajorMajor_20 Start: 13229, Stop: 13564, Start Num: 13

Candidate Starts for MajorMajor_20:

(10, 13133), (11, 13148), (Start: 13 @13229 has 187 MA's),

Gene: Malec_22 Start: 14588, Stop: 14923, Start Num: 13

Candidate Starts for Malec_22:

(10, 14492), (11, 14507), (Start: 13 @14588 has 187 MA's), (29, 14789), (30, 14810), (36, 14912),

Gene: McFly_24 Start: 14417, Stop: 14770, Start Num: 13

Candidate Starts for McFly_24:

(Start: 13 @14417 has 187 MA's), (20, 14525), (28, 14609),

Gene: MegTheThird_20 Start: 13246, Stop: 13581, Start Num: 13

Candidate Starts for MegTheThird_20:

(10, 13150), (11, 13165), (Start: 13 @13246 has 187 MA's), (27, 13432), (28, 13438), (29, 13447), (30, 13468),

Gene: MiculUcigas_21 Start: 14358, Stop: 14693, Start Num: 13
Candidate Starts for MiculUcigas_21:
(10, 14262), (11, 14277), (Start: 13 @14358 has 187 MA's), (29, 14559), (30, 14580), (36, 14682),

Gene: Miko_24 Start: 15958, Stop: 16293, Start Num: 13
Candidate Starts for Miko_24:
(10, 15862), (11, 15877), (Start: 13 @15958 has 187 MA's),

Gene: MissWhite_21 Start: 13390, Stop: 13743, Start Num: 13
Candidate Starts for MissWhite_21:
(1, 12841), (5, 12901), (6, 12922), (7, 12931), (9, 13057), (10, 13294), (11, 13309), (Start: 13 @13390 has 187 MA's), (17, 13462), (31, 13618),

Gene: Mulciber_21 Start: 14837, Stop: 15187, Start Num: 13
Candidate Starts for Mulciber_21:
(Start: 13 @14837 has 187 MA's), (19, 14921), (27, 15023), (30, 15059),

Gene: Munch_21 Start: 14837, Stop: 15187, Start Num: 13
Candidate Starts for Munch_21:
(Start: 13 @14837 has 187 MA's), (19, 14921), (27, 15023), (30, 15059),

Gene: NaSiaTalie_21 Start: 14355, Stop: 14690, Start Num: 13
Candidate Starts for NaSiaTalie_21:
(10, 14259), (11, 14274), (Start: 13 @14355 has 187 MA's), (29, 14556), (30, 14577), (36, 14679),

Gene: Naji_24 Start: 14205, Stop: 14540, Start Num: 13
Candidate Starts for Naji_24:
(10, 14109), (11, 14124), (Start: 13 @14205 has 187 MA's), (27, 14391),

Gene: Neeharika16_24 Start: 14408, Stop: 14761, Start Num: 13
Candidate Starts for Neeharika16_24:
(Start: 13 @14408 has 187 MA's), (20, 14516), (28, 14600),

Gene: Newrala_24 Start: 14408, Stop: 14761, Start Num: 13
Candidate Starts for Newrala_24:
(Start: 13 @14408 has 187 MA's), (20, 14516), (28, 14600),

Gene: NicoleTera_25 Start: 16066, Stop: 16401, Start Num: 13
Candidate Starts for NicoleTera_25:
(9, 15733), (10, 15970), (11, 15985), (Start: 13 @16066 has 187 MA's), (14, 16096), (30, 16288),

Gene: NothingSpecial_23 Start: 16325, Stop: 16660, Start Num: 13
Candidate Starts for NothingSpecial_23:
(10, 16229), (11, 16244), (Start: 13 @16325 has 187 MA's),

Gene: Odin_20 Start: 13097, Stop: 13432, Start Num: 13
Candidate Starts for Odin_20:
(10, 13001), (11, 13016), (Start: 13 @13097 has 187 MA's), (27, 13283), (30, 13319), (33, 13352), (37, 13427),

Gene: Orange_21 Start: 14837, Stop: 15187, Start Num: 13
Candidate Starts for Orange_21:
(Start: 13 @14837 has 187 MA's), (19, 14921), (27, 15023), (30, 15059),

Gene: PainterBoy_22 Start: 14468, Stop: 14806, Start Num: 13
Candidate Starts for PainterBoy_22:
(Start: 13 @14468 has 187 MA's), (27, 14654), (29, 14669), (30, 14690),

Gene: Petersenfast_20 Start: 14840, Stop: 15190, Start Num: 13
Candidate Starts for Petersenfast_20:
(Start: 13 @14840 has 187 MA's), (19, 14924), (27, 15026), (30, 15062),

Gene: Ph8s_22 Start: 13056, Stop: 13391, Start Num: 13
Candidate Starts for Ph8s_22:
(10, 12960), (11, 12975), (Start: 13 @13056 has 187 MA's), (16, 13119), (19, 13140), (27, 13242), (30, 13278), (33, 13311), (37, 13386),

Gene: Phaded_24 Start: 16394, Stop: 16750, Start Num: 13
Candidate Starts for Phaded_24:
(10, 16298), (11, 16313), (Start: 13 @16394 has 187 MA's), (16, 16457), (18, 16475), (27, 16580), (30, 16616), (33, 16649),

Gene: Phlei_16 Start: 14907, Stop: 15233, Start Num: 13
Candidate Starts for Phlei_16:
(12, 14904), (Start: 13 @14907 has 187 MA's), (27, 15096), (30, 15132), (31, 15138),

Gene: Piro94_22 Start: 14816, Stop: 15151, Start Num: 13
Candidate Starts for Piro94_22:
(10, 14720), (11, 14735), (Start: 13 @14816 has 187 MA's), (29, 15017), (30, 15038), (36, 15140),

Gene: Pmask_24 Start: 14409, Stop: 14762, Start Num: 13
Candidate Starts for Pmask_24:
(Start: 13 @14409 has 187 MA's), (20, 14517), (28, 14601),

Gene: Polyphemus_24 Start: 14410, Stop: 14763, Start Num: 13
Candidate Starts for Polyphemus_24:
(Start: 13 @14410 has 187 MA's), (20, 14518), (28, 14602),

Gene: Pomar16_24 Start: 14246, Stop: 14581, Start Num: 13
Candidate Starts for Pomar16_24:
(10, 14150), (11, 14165), (Start: 13 @14246 has 187 MA's), (27, 14432), (34, 14546),

Gene: Power_21 Start: 14251, Stop: 14586, Start Num: 13
Candidate Starts for Power_21:
(10, 14155), (11, 14170), (Start: 13 @14251 has 187 MA's), (14, 14281), (27, 14437), (30, 14473),

Gene: Priamo_24 Start: 14436, Stop: 14789, Start Num: 13
Candidate Starts for Priamo_24:
(Start: 13 @14436 has 187 MA's), (20, 14544), (28, 14628),

Gene: Prudy_23 Start: 16116, Stop: 16451, Start Num: 13
Candidate Starts for Prudy_23:
(10, 16020), (11, 16035), (Start: 13 @16116 has 187 MA's), (14, 16146), (30, 16338),

Gene: Pukovnik_23 Start: 15947, Stop: 16303, Start Num: 13
Candidate Starts for Pukovnik_23:

(10, 15851), (11, 15866), (Start: 13 @15947 has 187 MA's), (16, 16010), (18, 16028), (20, 16055), (27, 16133), (30, 16169), (33, 16202),

Gene: QueenB2_21 Start: 14329, Stop: 14664, Start Num: 13

Candidate Starts for QueenB2_21:

(10, 14233), (11, 14248), (Start: 13 @14329 has 187 MA's), (14, 14359), (27, 14515), (30, 14551),

Gene: QueenBeesly_21 Start: 14251, Stop: 14586, Start Num: 13

Candidate Starts for QueenBeesly_21:

(10, 14155), (11, 14170), (Start: 13 @14251 has 187 MA's), (14, 14281), (27, 14437), (30, 14473),

Gene: Quokka_19 Start: 13229, Stop: 13564, Start Num: 13

Candidate Starts for Quokka_19:

(10, 13133), (11, 13148), (Start: 13 @13229 has 187 MA's),

Gene: Rachaly_24 Start: 15986, Stop: 16321, Start Num: 13

Candidate Starts for Rachaly_24:

(10, 15890), (11, 15905), (Start: 13 @15986 has 187 MA's),

Gene: RedRock_24 Start: 16248, Stop: 16583, Start Num: 13

Candidate Starts for RedRock_24:

(3, 15699), (9, 15915), (10, 16152), (11, 16167), (Start: 13 @16248 has 187 MA's), (14, 16278), (27, 16434), (30, 16470),

Gene: Retro23_21 Start: 14402, Stop: 14737, Start Num: 13

Candidate Starts for Retro23_21:

(10, 14306), (11, 14321), (Start: 13 @14402 has 187 MA's), (14, 14432), (27, 14588), (30, 14624),

Gene: Rifter_24 Start: 14384, Stop: 14737, Start Num: 13

Candidate Starts for Rifter_24:

(10, 14288), (11, 14303), (Start: 13 @14384 has 187 MA's), (20, 14492), (28, 14576),

Gene: Roksolana_24 Start: 14412, Stop: 14765, Start Num: 13

Candidate Starts for Roksolana_24:

(10, 14316), (11, 14331), (Start: 13 @14412 has 187 MA's), (20, 14520), (28, 14604),

Gene: Salz_21 Start: 14834, Stop: 15184, Start Num: 13

Candidate Starts for Salz_21:

(Start: 13 @14834 has 187 MA's), (19, 14918), (27, 15020), (30, 15056),

Gene: Saskia_20 Start: 14837, Stop: 15187, Start Num: 13

Candidate Starts for Saskia_20:

(Start: 13 @14837 has 187 MA's), (19, 14921), (27, 15023), (30, 15059),

Gene: SemperFi_23 Start: 14679, Stop: 15014, Start Num: 13

Candidate Starts for SemperFi_23:

(10, 14583), (11, 14598), (Start: 13 @14679 has 187 MA's), (14, 14709), (27, 14865), (30, 14901),

Gene: Serenity_20 Start: 13229, Stop: 13564, Start Num: 13

Candidate Starts for Serenity_20:

(10, 13133), (11, 13148), (Start: 13 @13229 has 187 MA's),

Gene: Sham4_21 Start: 14840, Stop: 15190, Start Num: 13

Candidate Starts for Sham4_21:

(Start: 13 @14840 has 187 MA's), (19, 14924), (27, 15026), (30, 15062),

Gene: SheaKeira_21 Start: 13285, Stop: 13620, Start Num: 13

Candidate Starts for SheaKeira_21:

(Start: 13 @13285 has 187 MA's), (27, 13471), (28, 13477), (29, 13486), (30, 13507),

Gene: Sknot_21 Start: 14358, Stop: 14693, Start Num: 13

Candidate Starts for Sknot_21:

(10, 14262), (11, 14277), (Start: 13 @14358 has 187 MA's), (29, 14559), (30, 14580), (36, 14682),

Gene: Smeagan_23 Start: 14767, Stop: 15102, Start Num: 13

Candidate Starts for Smeagan_23:

(4, 14257), (10, 14671), (11, 14686), (Start: 13 @14767 has 187 MA's), (14, 14797),

Gene: SmellyB_24 Start: 14417, Stop: 14770, Start Num: 13

Candidate Starts for SmellyB_24:

(Start: 13 @14417 has 187 MA's), (20, 14525), (28, 14609),

Gene: SnapTap_21 Start: 14251, Stop: 14586, Start Num: 13

Candidate Starts for SnapTap_21:

(10, 14155), (11, 14170), (Start: 13 @14251 has 187 MA's), (14, 14281), (27, 14437), (30, 14473),

Gene: Snape_21 Start: 14840, Stop: 15190, Start Num: 13

Candidate Starts for Snape_21:

(Start: 13 @14840 has 187 MA's), (19, 14924), (27, 15026), (30, 15062),

Gene: SororFago_20 Start: 13452, Stop: 13787, Start Num: 13

Candidate Starts for SororFago_20:

(10, 13356), (11, 13371), (Start: 13 @13452 has 187 MA's), (17, 13524), (27, 13638), (30, 13674), (37, 13782),

Gene: StarStuff_24 Start: 14205, Stop: 14540, Start Num: 13

Candidate Starts for StarStuff_24:

(10, 14109), (11, 14124), (Start: 13 @14205 has 187 MA's), (27, 14391),

Gene: Sunhee_19 Start: 13486, Stop: 13842, Start Num: 13

Candidate Starts for Sunhee_19:

(10, 13390), (Start: 13 @13486 has 187 MA's), (16, 13549), (27, 13672), (30, 13708), (33, 13741),

Gene: SuperAwesome_24 Start: 14408, Stop: 14761, Start Num: 13

Candidate Starts for SuperAwesome_24:

(Start: 13 @14408 has 187 MA's), (20, 14516), (28, 14600),

Gene: SuperCallie99_24 Start: 14407, Stop: 14760, Start Num: 13

Candidate Starts for SuperCallie99_24:

(Start: 13 @14407 has 187 MA's), (20, 14515), (28, 14599),

Gene: Superchunk_20 Start: 12955, Stop: 13290, Start Num: 13

Candidate Starts for Superchunk_20:

(10, 12859), (11, 12874), (Start: 13 @12955 has 187 MA's), (16, 13018), (19, 13039), (27, 13141), (30, 13177), (33, 13210), (37, 13285),

Gene: SweetiePie_21 Start: 14251, Stop: 14586, Start Num: 13
Candidate Starts for SweetiePie_21:
(10, 14155), (11, 14170), (Start: 13 @14251 has 187 MA's), (14, 14281), (27, 14437), (30, 14473),

Gene: SwirlSquare_23 Start: 13134, Stop: 13472, Start Num: 13
Candidate Starts for SwirlSquare_23:
(10, 13038), (Start: 13 @13134 has 187 MA's), (19, 13218), (27, 13320), (30, 13356), (33, 13389),

Gene: TarsusIV_21 Start: 14354, Stop: 14689, Start Num: 13
Candidate Starts for TarsusIV_21:
(10, 14258), (11, 14273), (Start: 13 @14354 has 187 MA's), (19, 14438),

Gene: Temprado_24 Start: 14413, Stop: 14766, Start Num: 13
Candidate Starts for Temprado_24:
(Start: 13 @14413 has 187 MA's), (20, 14521), (28, 14605),

Gene: Terrific_25 Start: 14812, Stop: 15147, Start Num: 13
Candidate Starts for Terrific_25:
(10, 14716), (11, 14731), (Start: 13 @14812 has 187 MA's), (29, 15013), (30, 15034), (36, 15136),

Gene: Timothy_21 Start: 14837, Stop: 15187, Start Num: 13
Candidate Starts for Timothy_21:
(Start: 13 @14837 has 187 MA's), (19, 14921), (27, 15023), (30, 15059),

Gene: TinyTimmy_21 Start: 14880, Stop: 15230, Start Num: 13
Candidate Starts for TinyTimmy_21:
(Start: 13 @14880 has 187 MA's), (19, 14964), (27, 15066), (30, 15102),

Gene: TipsytheTRex_20 Start: 13364, Stop: 13729, Start Num: 13
Candidate Starts for TipsytheTRex_20:
(10, 13268), (11, 13283), (Start: 13 @13364 has 187 MA's), (26, 13550),

Gene: Tomathan_24 Start: 14205, Stop: 14540, Start Num: 13
Candidate Starts for Tomathan_24:
(10, 14109), (11, 14124), (Start: 13 @14205 has 187 MA's), (27, 14391), (34, 14505),

Gene: ToneTone_22 Start: 14325, Stop: 14678, Start Num: 13
Candidate Starts for ToneTone_22:
(Start: 13 @14325 has 187 MA's), (20, 14433), (28, 14517),

Gene: Travvers_24 Start: 14205, Stop: 14540, Start Num: 13
Candidate Starts for Travvers_24:
(10, 14109), (11, 14124), (Start: 13 @14205 has 187 MA's), (27, 14391),

Gene: Tristan_22 Start: 16066, Stop: 16422, Start Num: 13
Candidate Starts for Tristan_22:
(10, 15970), (11, 15985), (Start: 13 @16066 has 187 MA's), (16, 16129), (18, 16147), (27, 16252), (30, 16288), (33, 16321),

Gene: Trixie_24 Start: 15964, Stop: 16299, Start Num: 13
Candidate Starts for Trixie_24:
(9, 15631), (10, 15868), (11, 15883), (Start: 13 @15964 has 187 MA's), (14, 15994), (29, 16165),

Gene: Trooper_21 Start: 14160, Stop: 14495, Start Num: 13
Candidate Starts for Trooper_21:
(10, 14043), (Start: 13 @14160 has 187 MA's), (19, 14244), (20, 14268),

Gene: Tucker_24 Start: 14411, Stop: 14764, Start Num: 13
Candidate Starts for Tucker_24:
(10, 14315), (11, 14330), (Start: 13 @14411 has 187 MA's), (20, 14519), (28, 14603),

Gene: Turbido_23 Start: 14794, Stop: 15129, Start Num: 13
Candidate Starts for Turbido_23:
(4, 14284), (10, 14698), (11, 14713), (Start: 13 @14794 has 187 MA's), (14, 14824),

Gene: Updawg_23 Start: 14800, Stop: 15135, Start Num: 13
Candidate Starts for Updawg_23:
(10, 14704), (11, 14719), (Start: 13 @14800 has 187 MA's), (29, 15001), (30, 15022), (36, 15124),

Gene: VA6_21 Start: 14309, Stop: 14644, Start Num: 13
Candidate Starts for VA6_21:
(10, 14213), (11, 14228), (Start: 13 @14309 has 187 MA's), (14, 14339), (19, 14393),

Gene: VC3_24 Start: 14296, Stop: 14631, Start Num: 13
Candidate Starts for VC3_24:
(10, 14200), (11, 14215), (Start: 13 @14296 has 187 MA's), (27, 14482),

Gene: VohminGhazi_24 Start: 14417, Stop: 14770, Start Num: 13
Candidate Starts for VohminGhazi_24:
(Start: 13 @14417 has 187 MA's), (20, 14525), (28, 14609),

Gene: WeiHuaDA_27 Start: 16569, Stop: 16904, Start Num: 13
Candidate Starts for WeiHuaDA_27:
(5, 16074), (9, 16236), (10, 16473), (11, 16488), (Start: 13 @16569 has 187 MA's), (14, 16599), (19, 16653), (27, 16755), (30, 16791), (31, 16797),

Gene: Whabigail7_23 Start: 14782, Stop: 15117, Start Num: 13
Candidate Starts for Whabigail7_23:
(4, 14272), (10, 14686), (11, 14701), (Start: 13 @14782 has 187 MA's), (14, 14812),

Gene: WideWale_23 Start: 14800, Stop: 15135, Start Num: 13
Candidate Starts for WideWale_23:
(10, 14704), (11, 14719), (Start: 13 @14800 has 187 MA's), (29, 15001), (30, 15022), (36, 15124),

Gene: Wiks_24 Start: 14393, Stop: 14746, Start Num: 13
Candidate Starts for Wiks_24:
(Start: 13 @14393 has 187 MA's), (20, 14501), (28, 14585),

Gene: Wolpertinger_20 Start: 14840, Stop: 15190, Start Num: 13
Candidate Starts for Wolpertinger_20:
(Start: 13 @14840 has 187 MA's), (19, 14924), (27, 15026), (30, 15062),

Gene: WunderPhul_24 Start: 14393, Stop: 14746, Start Num: 13
Candidate Starts for WunderPhul_24:
(Start: 13 @14393 has 187 MA's), (20, 14501), (28, 14585),

Gene: XianYue_21 Start: 14273, Stop: 14608, Start Num: 13

Candidate Starts for XianYue_21:

(10, 14177), (11, 14192), (Start: 13 @14273 has 187 MA's), (14, 14303), (19, 14357),

Gene: Yokurt_24 Start: 14393, Stop: 14746, Start Num: 13

Candidate Starts for Yokurt_24:

(Start: 13 @14393 has 187 MA's), (20, 14501), (28, 14585),

Gene: Zaka_24 Start: 14393, Stop: 14746, Start Num: 13

Candidate Starts for Zaka_24:

(Start: 13 @14393 has 187 MA's), (20, 14501), (28, 14585),

Gene: Zulu_24 Start: 14392, Stop: 14745, Start Num: 13

Candidate Starts for Zulu_24:

(Start: 13 @14392 has 187 MA's), (20, 14500), (28, 14584),