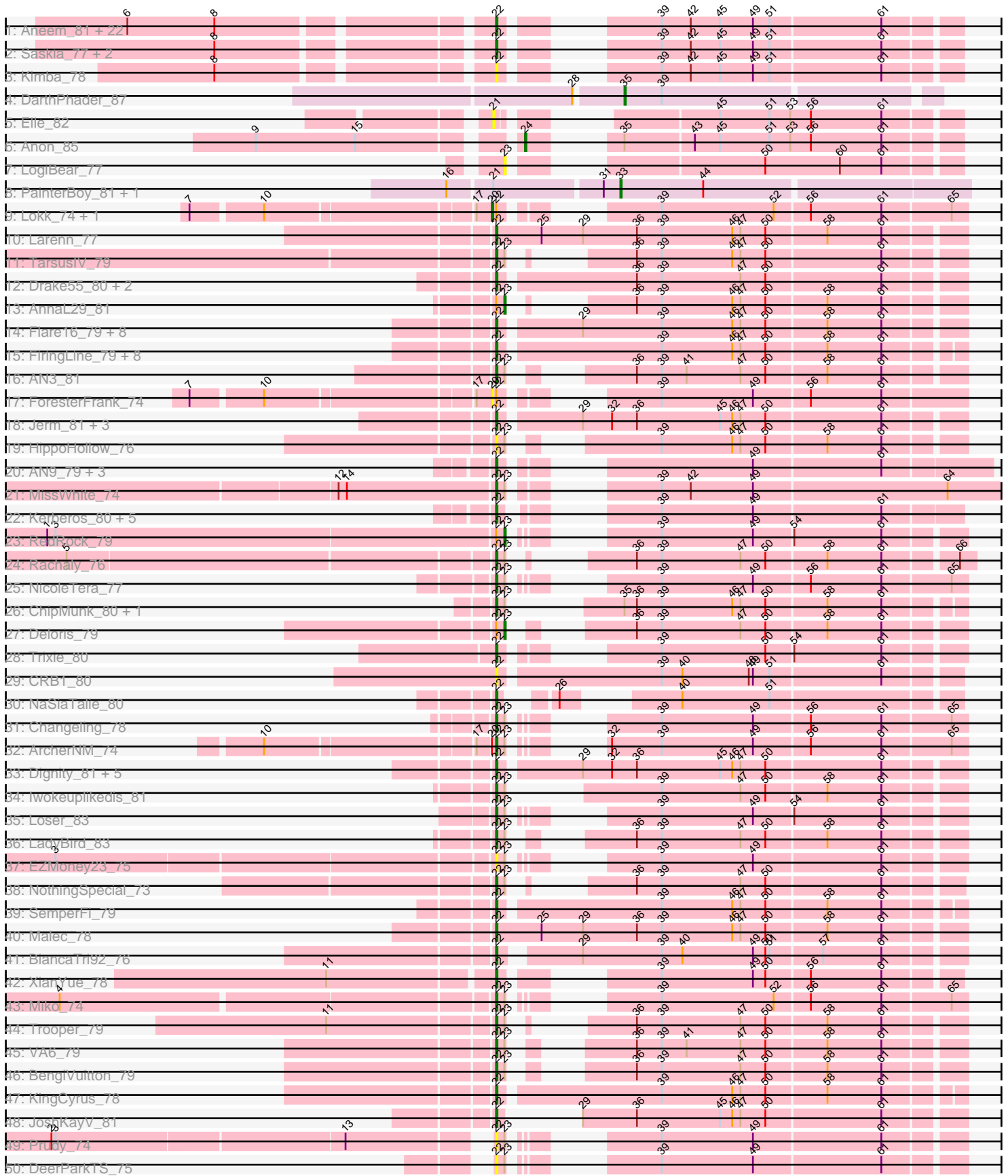
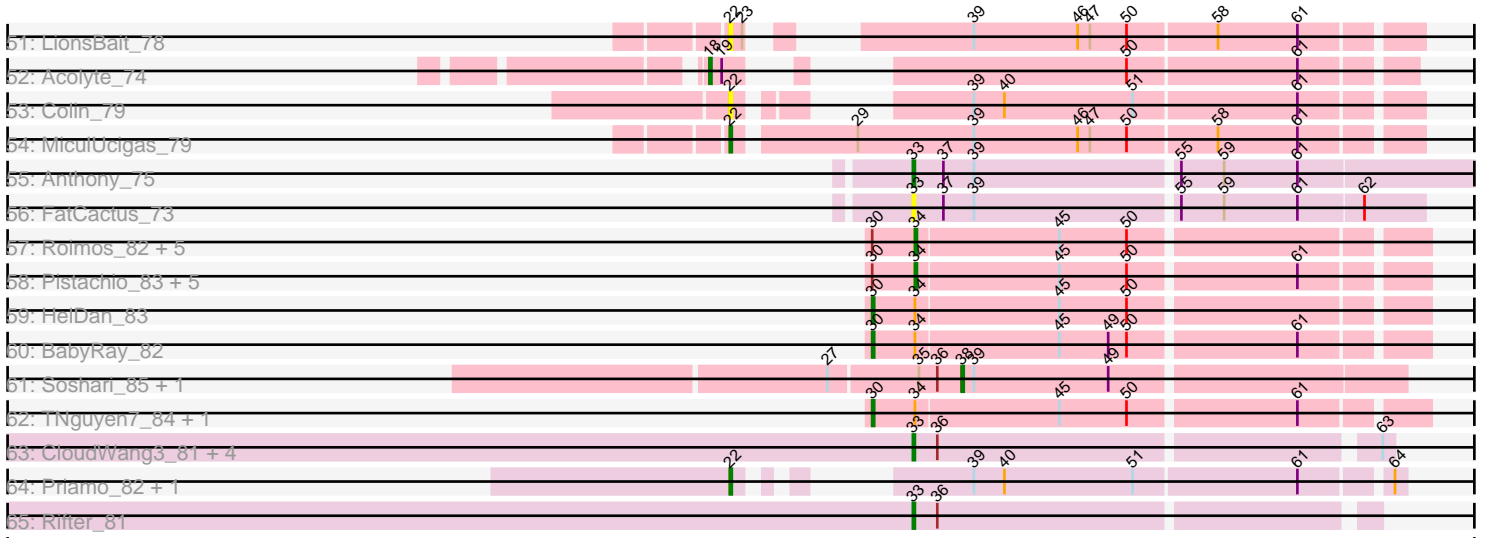


Pham 304785



Pham 304785



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 304785 Report

This analysis was run 06/08/26 on database version 649.

Pham number 304785 has 143 members, 25 are drafts.

Phages represented in each track:

- Track 1 : Aneem_81, Wolpertinger_79, Mabel_80, Lucivia_81, Orange_80, Sham4_76, MaCh_80, Fibonacci_79, Munch_80, Bud_75, Et2Brutus_79, Gilberta_77, Timothy_80, Mulciber_78, Snape_80, TinyTimmy_79, Joselito_79, Salz_75, Hutc2_76, Insomnia_79, Flaverint_81, Jabith_79, Petersenfast_74
- Track 2 : Saskia_77, Bachome_78, Ebony_80
- Track 3 : Kimba_78
- Track 4 : DarthPhader_87
- Track 5 : Elle_82
- Track 6 : Anon_85
- Track 7 : LogiBear_77
- Track 8 : PainterBoy_81, Lucyedi_81
- Track 9 : Loka_74, BobSwaget_73
- Track 10 : Larenn_77
- Track 11 : TarsusIV_79
- Track 12 : Drake55_80, Piro94_78, HarryHoudini_79
- Track 13 : AnnaL29_81
- Track 14 : Flare16_79, Centaur_79, Equemioh13_79, WideWale_80, Gratitude_77, Updawn_80, Terrific_80, Baehexic_78, Sknot_79
- Track 15 : FiringLine_79, Power_79, First_0080, Georgie2_81, 20ES_81, SweetiePie_79, Crucio_79, QueenBeesly_79, SnapTap_79
- Track 16 : AN3_81
- Track 17 : ForesterFrank_74
- Track 18 : Jerm_81, Agape74_81, Buggy_81, LilTurb_80
- Track 19 : HippoHollow_76
- Track 20 : AN9_79, VC3_78, ANI8_79, C3_72
- Track 21 : MissWhite_74
- Track 22 : Kerberos_80, DBQu4n_80, Travvers_80, Pomar16_80, StarStuff_80, Tomathan_80
- Track 23 : RedRock_79
- Track 24 : Rachaly_76
- Track 25 : NicoleTera_77
- Track 26 : ChipMunk_80, EvilGenius_79
- Track 27 : Deloris_79
- Track 28 : Trixie_80
- Track 29 : CRB1_80
- Track 30 : NaSiaTalie_80
- Track 31 : Changeling_78

- Track 32 : ArcherNM_74
- Track 33 : Dignity_81, Smeagan_82, Turbido_80, Whabigail7_79, Leviathan_81, AbbyPaige_81
- Track 34 : Iwokeuplikedis_81
- Track 35 : Loser_83
- Track 36 : LadyBird_83
- Track 37 : EZMoney23_75
- Track 38 : NothingSpecial_73
- Track 39 : SemperFi_79
- Track 40 : Malec_78
- Track 41 : BiancaTri92_76
- Track 42 : XianYue_78
- Track 43 : Miko_74
- Track 44 : Trooper_79
- Track 45 : VA6_79
- Track 46 : BengiVuitton_79
- Track 47 : KingCyrus_78
- Track 48 : JoshKayV_81
- Track 49 : Prudy_74
- Track 50 : DeerParkTS_75
- Track 51 : LionsBait_78
- Track 52 : Acolyte_74
- Track 53 : Colin_79
- Track 54 : MiculUcigas_79
- Track 55 : Anthony_75
- Track 56 : FatCactus_73
- Track 57 : Roimos_82, Puppy_84, Scout_82, Heathen_82, Fred313_80, Kachowdy_81
- Track 58 : Pistachio_83, SaturnRing_84, Clammy_84, BlueBird_85, Giroux_86, Bugatti_84
- Track 59 : HelDan_83
- Track 60 : BabyRay_82
- Track 61 : Soshari_85, StepMih_83
- Track 62 : TNguyen7_84, Idleandcovert_83
- Track 63 : CloudWang3_81, Hexamo_80, Hammer_81, Gruunaga_80, Gladiator_77
- Track 64 : Priamo_82, Blinn1_84
- Track 65 : Rifter_81

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

The start number called the most often in the published annotations is 22, it was called in 88 of the 118 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 20ES_81, AN3_81, AN9_79, ANI8_79, AbbyPaige_81, Agape74_81, Aneem_81, ArcherNM_74, Bachome_78, Baehexic_78, BengiVuitton_79, BiancaTri92_76, Blinn1_84, Bud_75, Buggy_81, C3_72, CRB1_80, Centaur_79, Changeling_78, ChipMunk_80, Colin_79, Crucio_79, DBQu4n_80, DeerParkTS_75, Dignity_81, Drake55_80, EZMoney23_75, Ebony_80, Equemioh13_79, Et2Brutus_79, EvilGenius_79, Fibonacci_79, FiringLine_79, First_0080, Flare16_79, Flaverint_81,

Georgie2_81, Gilberta_77, Gratitude_77, HarryHoudini_79, HippoHollow_76, Hutc2_76, Insomnia_79, Iwokeuplikedis_81, Jabith_79, Jerm_81, Joselito_79, JoshKayV_81, Kerberos_80, Kimba_78, KingCyrus_78, LadyBird_83, Larenn_77, Leviathan_81, LilTurb_80, LionsBait_78, Loser_83, Lucivia_81, MaCh_80, Mabel_80, Malec_78, MiculUcigas_79, Miko_74, MissWhite_74, Mulciber_78, Munch_80, NaSiaTalie_80, NicoleTera_77, NothingSpecial_73, Orange_80, Petersenfast_74, Piro94_78, Pomar16_80, Power_79, Priamo_82, Prudy_74, QueenBeesly_79, Rachaly_76, Salz_75, Saskia_77, SemperFi_79, Sham4_76, Sknot_79, Smeagan_82, SnapTap_79, Snape_80, StarStuff_80, SweetiePie_79, TarsusIV_79, Terrific_80, Timothy_80, TinyTimmy_79, Tomathan_80, Travvers_80, Trixie_80, Trooper_79, Turbido_80, Updawg_80, VA6_79, VC3_78, Whabigail7_79, WideWale_80, Wolpertinger_79, XianYue_78,

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

- AnnaL29_81, BobSwaget_73, Deloris_79, ForesterFrank_74, Lokk_74, RedRock_79,

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

- Acolyte_74, Anon_85, Anthony_75, BabyRay_82, BlueBird_85, Bugatti_84, Clammy_84, CloudWang3_81, DarthPhader_87, Elle_82, FatCactus_73, Fred313_80, Giroux_86, Gladiator_77, Gruunaga_80, Hammer_81, Heathen_82, HelDan_83, Hexamo_80, Idleandcovert_83, Kachowdy_81, LogiBear_77, Lucyedi_81, PainterBoy_81, Pistachio_83, Puppy_84, Rifter_81, Roimos_82, SaturnRing_84, Scout_82, Soshari_85, StepMih_83, TNguyen7_84,

Summary by start number:

Start 18:

- Found in 1 of 143 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 118
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Acolyte_74 (A2),

Start 20:

- Found in 4 of 143 (2.8%) of genes in pham
- Manual Annotations of this start: 2 of 118
- Called 75.0% of time when present
- Phage (with cluster) where this start called: BobSwaget_73 (A2), ForesterFrank_74 (A2), Lokk_74 (A2),

Start 21:

- Found in 3 of 143 (2.1%) of genes in pham
- No Manual Annotations of this start.
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Elle_82 (A15),

Start 22:

- Found in 110 of 143 (76.9%) of genes in pham
- Manual Annotations of this start: 88 of 118
- Called 94.5% of time when present
- Phage (with cluster) where this start called: 20ES_81 (A2), AN3_81 (A2), AN9_79 (A2), AN18_79 (A2), AbbyPaige_81 (A2), Agape74_81 (A2), Aneem_81 (A11), ArcherNM_74 (A2), Bachome_78 (A11), Baehexic_78 (A2), BengiVuitton_79 (A2),

BiancaTri92_76 (A2), Blinn1_84 (A6), Bud_75 (A11), Buggy_81 (A2), C3_72 (A2), CRB1_80 (A2), Centaur_79 (A2), Changeling_78 (A2), ChipMunk_80 (A2), Colin_79 (A2), Crucio_79 (A2), DBQu4n_80 (A2), DeerParkTS_75 (A2), Dignity_81 (A2), Drake55_80 (A2), EZMoney23_75 (A2), Ebony_80 (A11), Equemioh13_79 (A2), Et2Brutus_79 (A11), EvilGenius_79 (A2), Fibonacci_79 (A11), FiringLine_79 (A2), First_0080 (A2), Flare16_79 (A2), Flaverint_81 (A11), Georgie2_81 (A2), Gilberta_77 (A11), Gratitude_77 (A2), HarryHoudini_79 (A2), HippoHollow_76 (A2), Hutc2_76 (A11), Insomnia_79 (A11), Iwokeuplikedis_81 (A2), Jabith_79 (A11), Jerm_81 (A2), Joselito_79 (A11), JoshKayV_81 (A2), Kerberos_80 (A2), Kimba_78 (A11), KingCyrus_78 (A2), LadyBird_83 (A2), Larenn_77 (A2), Leviathan_81 (A2), LilTurb_80 (A2), LionsBait_78 (A2), Loser_83 (A2), Lucivia_81 (A11), MaCh_80 (A11), Mabel_80 (A11), Malec_78 (A2), MiculUcigas_79 (A2), Miko_74 (A2), MissWhite_74 (A2), Mulciber_78 (A11), Munch_80 (A11), NaSiaTalie_80 (A2), NicoleTera_77 (A2), NothingSpecial_73 (A2), Orange_80 (A11), Petersenfast_74 (A11), Piro94_78 (A2), Pomar16_80 (A2), Power_79 (A2), Priamo_82 (A6), Prudy_74 (A2), QueenBeesly_79 (A2), Rachaly_76 (A2), Salz_75 (A11), Saskia_77 (A11), SemperFi_79 (A2), Sham4_76 (A11), Sknot_79 (A2), Smeagan_82 (A2), SnapTap_79 (A2), Snape_80 (A11), StarStuff_80 (A2), SweetiePie_79 (A2), TarsusIV_79 (A2), Terrific_80 (A2), Timothy_80 (A11), TinyTimmy_79 (A11), Tomathan_80 (A2), Travvers_80 (A2), Trixie_80 (A2), Trooper_79 (A2), Turbido_80 (A2), Updawg_80 (A2), VA6_79 (A2), VC3_78 (A2), Whabigail7_79 (A2), WideWale_80 (A2), Wolpertinger_79 (A11), XianYue_78 (A2),

Start 23:

- Found in 26 of 143 (18.2%) of genes in pham
- Manual Annotations of this start: 3 of 118
- Called 15.4% of time when present
- Phage (with cluster) where this start called: AnnaL29_81 (A2), Deloris_79 (A2), LogiBear_77 (A15), RedRock_79 (A2),

Start 24:

- Found in 1 of 143 (0.7%) of genes in pham
- Manual Annotations of this start: 1 of 118
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anon_85 (A15),

Start 30:

- Found in 16 of 143 (11.2%) of genes in pham
- Manual Annotations of this start: 4 of 118
- Called 25.0% of time when present
- Phage (with cluster) where this start called: BabyRay_82 (A3), HelDan_83 (A3), Idleandcovert_83 (A3), TNguyen7_84 (A3),

Start 33:

- Found in 10 of 143 (7.0%) of genes in pham
- Manual Annotations of this start: 9 of 118
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Anthony_75 (A20), CloudWang3_81 (A6), FatCactus_73 (A20), Gladiator_77 (A6), Gruunaga_80 (A6), Hammer_81 (A6), Hexamo_80 (A6), Lucyedi_81 (A16), PainterBoy_81 (A16), Rifter_81 (A6),

Start 34:

- Found in 16 of 143 (11.2%) of genes in pham

- Manual Annotations of this start: 7 of 118
- Called 75.0% of time when present
- Phage (with cluster) where this start called: BlueBird_85 (A3), Bugatti_84 (A3), Clammy_84 (A3), Fred313_80 (A3), Giroux_86 (A3), Heathen_82 (A3), Kachowdy_81 (A3), Pistachio_83 (A3), Puppy_84 (A3), Roimos_82 (A3), SaturnRing_84 (A3), Scout_82 (A3),

Start 35:

- Found in 6 of 143 (4.2%) of genes in pham
- Manual Annotations of this start: 1 of 118
- Called 16.7% of time when present
- Phage (with cluster) where this start called: DarthPhader_87 (A12),

Start 38:

- Found in 2 of 143 (1.4%) of genes in pham
- Manual Annotations of this start: 2 of 118
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Soshari_85 (A3), StepMih_83 (A3),

Summary by clusters:

There are 8 clusters represented in this pham: A15, A20, A16, A11, A12, A3, A2, A6,

Info for manual annotations of cluster A11:

- Start number 22 was manually annotated 23 times for cluster A11.

Info for manual annotations of cluster A12:

- Start number 35 was manually annotated 1 time for cluster A12.

Info for manual annotations of cluster A15:

- Start number 24 was manually annotated 1 time for cluster A15.

Info for manual annotations of cluster A16:

- Start number 33 was manually annotated 2 times for cluster A16.

Info for manual annotations of cluster A2:

- Start number 18 was manually annotated 1 time for cluster A2.
- Start number 20 was manually annotated 2 times for cluster A2.
- Start number 22 was manually annotated 63 times for cluster A2.
- Start number 23 was manually annotated 3 times for cluster A2.

Info for manual annotations of cluster A20:

- Start number 33 was manually annotated 1 time for cluster A20.

Info for manual annotations of cluster A3:

- Start number 30 was manually annotated 4 times for cluster A3.
- Start number 34 was manually annotated 7 times for cluster A3.
- Start number 38 was manually annotated 2 times for cluster A3.

Info for manual annotations of cluster A6:

- Start number 22 was manually annotated 2 times for cluster A6.
- Start number 33 was manually annotated 6 times for cluster A6.

Gene Information:

Gene: 20ES_81 Start: 46774, Stop: 46457, Start Num: 22

Candidate Starts for 20ES_81:

(Start: 22 @46774 has 88 MA's), (39, 46663), (46, 46612), (47, 46606), (50, 46588), (58, 46546), (61, 46507),

Gene: AN3_81 Start: 45387, Stop: 45106, Start Num: 22

Candidate Starts for AN3_81:

(Start: 22 @45387 has 88 MA's), (Start: 23 @45381 has 3 MA's), (36, 45333), (39, 45315), (41, 45297), (47, 45258), (50, 45240), (58, 45198), (61, 45159),

Gene: AN9_79 Start: 45517, Stop: 45221, Start Num: 22

Candidate Starts for AN9_79:

(Start: 22 @45517 has 88 MA's), (49, 45385), (61, 45295),

Gene: ANI8_79 Start: 45517, Stop: 45221, Start Num: 22

Candidate Starts for ANI8_79:

(Start: 22 @45517 has 88 MA's), (49, 45385), (61, 45295),

Gene: AbbyPaige_81 Start: 47049, Stop: 46729, Start Num: 22

Candidate Starts for AbbyPaige_81:

(Start: 22 @47049 has 88 MA's), (29, 46995), (32, 46974), (36, 46956), (45, 46896), (46, 46887), (47, 46881), (50, 46863), (61, 46782),

Gene: Acolyte_74 Start: 46022, Stop: 45753, Start Num: 18

Candidate Starts for Acolyte_74:

(Start: 18 @46022 has 1 MA's), (19, 46016), (50, 45884), (61, 45803),

Gene: Agape74_81 Start: 47043, Stop: 46723, Start Num: 22

Candidate Starts for Agape74_81:

(Start: 22 @47043 has 88 MA's), (29, 46989), (32, 46968), (36, 46950), (45, 46890), (46, 46881), (47, 46875), (50, 46857), (61, 46776),

Gene: Aneem_81 Start: 45984, Stop: 45709, Start Num: 22

Candidate Starts for Aneem_81:

(6, 46224), (8, 46161), (Start: 22 @45984 has 88 MA's), (39, 45915), (42, 45894), (45, 45873), (49, 45849), (51, 45837), (61, 45759),

Gene: AnnaL29_81 Start: 47245, Stop: 46979, Start Num: 23

Candidate Starts for AnnaL29_81:

(Start: 22 @47251 has 88 MA's), (Start: 23 @47245 has 3 MA's), (36, 47206), (39, 47188), (46, 47137), (47, 47131), (50, 47113), (58, 47071), (61, 47032),

Gene: Anon_85 Start: 46676, Stop: 46413, Start Num: 24

Candidate Starts for Anon_85:

(9, 46847), (15, 46775), (Start: 24 @46676 has 1 MA's), (Start: 35 @46646 has 1 MA's), (43, 46598), (45, 46580), (51, 46544), (53, 46529), (56, 46514), (61, 46463),

Gene: Anthony_75 Start: 45522, Stop: 45256, Start Num: 33

Candidate Starts for Anthony_75:

(Start: 33 @45522 has 9 MA's), (37, 45507), (39, 45492), (55, 45396), (59, 45375), (61, 45339),

Gene: ArcherNM_74 Start: 46349, Stop: 46071, Start Num: 22

Candidate Starts for ArcherNM_74:

(10, 46499), (17, 46361), (Start: 20 @46352 has 2 MA's), (Start: 22 @46349 has 88 MA's), (Start: 23 @46343 has 3 MA's), (32, 46322), (39, 46286), (49, 46220), (56, 46181), (61, 46130), (65, 46082),

Gene: BabyRay_82 Start: 46614, Stop: 46357, Start Num: 30

Candidate Starts for BabyRay_82:

(Start: 30 @46614 has 4 MA's), (Start: 34 @46593 has 7 MA's), (45, 46524), (49, 46500), (50, 46491), (61, 46413),

Gene: Bachome_78 Start: 44864, Stop: 44589, Start Num: 22

Candidate Starts for Bachome_78:

(8, 45041), (Start: 22 @44864 has 88 MA's), (39, 44795), (42, 44774), (45, 44753), (49, 44729), (51, 44717), (61, 44639),

Gene: Baehexic_78 Start: 46443, Stop: 46123, Start Num: 22

Candidate Starts for Baehexic_78:

(Start: 22 @46443 has 88 MA's), (29, 46389), (39, 46332), (46, 46281), (47, 46275), (50, 46257), (58, 46215), (61, 46176),

Gene: BengiVuitton_79 Start: 46581, Stop: 46300, Start Num: 22

Candidate Starts for BengiVuitton_79:

(Start: 22 @46581 has 88 MA's), (Start: 23 @46575 has 3 MA's), (36, 46527), (39, 46509), (47, 46452), (50, 46434), (58, 46392), (61, 46353),

Gene: BiancaTri92_76 Start: 46264, Stop: 45950, Start Num: 22

Candidate Starts for BiancaTri92_76:

(Start: 22 @46264 has 88 MA's), (29, 46216), (39, 46159), (40, 46144), (49, 46093), (50, 46084), (51, 46081), (57, 46045), (61, 46003),

Gene: Blinn1_84 Start: 45891, Stop: 45631, Start Num: 22

Candidate Starts for Blinn1_84:

(Start: 22 @45891 has 88 MA's), (39, 45831), (40, 45816), (51, 45753), (61, 45675), (64, 45636),

Gene: BlueBird_85 Start: 47028, Stop: 46792, Start Num: 34

Candidate Starts for BlueBird_85:

(Start: 30 @47049 has 4 MA's), (Start: 34 @47028 has 7 MA's), (45, 46959), (50, 46926), (61, 46848),

Gene: BobSwaget_73 Start: 44446, Stop: 44162, Start Num: 20

Candidate Starts for BobSwaget_73:

(7, 44641), (10, 44593), (17, 44455), (Start: 20 @44446 has 2 MA's), (Start: 22 @44443 has 88 MA's), (39, 44377), (52, 44296), (56, 44272), (61, 44221), (65, 44173),

Gene: Bud_75 Start: 44421, Stop: 44146, Start Num: 22

Candidate Starts for Bud_75:

(6, 44661), (8, 44598), (Start: 22 @44421 has 88 MA's), (39, 44352), (42, 44331), (45, 44310), (49, 44286), (51, 44274), (61, 44196),

Gene: Bugatti_84 Start: 47028, Stop: 46792, Start Num: 34

Candidate Starts for Bugatti_84:

(Start: 30 @47049 has 4 MA's), (Start: 34 @47028 has 7 MA's), (45, 46959), (50, 46926), (61, 46848),

Gene: Buggy_81 Start: 47094, Stop: 46774, Start Num: 22

Candidate Starts for Buggy_81:

(Start: 22 @47094 has 88 MA's), (29, 47040), (32, 47019), (36, 47001), (45, 46941), (46, 46932), (47, 46926), (50, 46908), (61, 46827),

Gene: C3_72 Start: 45517, Stop: 45221, Start Num: 22

Candidate Starts for C3_72:

(Start: 22 @45517 has 88 MA's), (49, 45385), (61, 45295),

Gene: CRB1_80 Start: 47036, Stop: 46719, Start Num: 22

Candidate Starts for CRB1_80:

(Start: 22 @47036 has 88 MA's), (39, 46925), (40, 46910), (48, 46862), (49, 46859), (51, 46847), (61, 46769),

Gene: Centaur_79 Start: 46321, Stop: 46001, Start Num: 22

Candidate Starts for Centaur_79:

(Start: 22 @46321 has 88 MA's), (29, 46267), (39, 46210), (46, 46159), (47, 46153), (50, 46135), (58, 46093), (61, 46054),

Gene: Changeling_78 Start: 46920, Stop: 46642, Start Num: 22

Candidate Starts for Changeling_78:

(Start: 22 @46920 has 88 MA's), (Start: 23 @46914 has 3 MA's), (39, 46857), (49, 46791), (56, 46752), (61, 46701), (65, 46653),

Gene: ChipMunk_80 Start: 47961, Stop: 47692, Start Num: 22

Candidate Starts for ChipMunk_80:

(Start: 22 @47961 has 88 MA's), (Start: 23 @47955 has 3 MA's), (Start: 35 @47925 has 1 MA's), (36, 47916), (39, 47898), (46, 47847), (47, 47841), (50, 47823), (58, 47781), (61, 47742),

Gene: Clammy_84 Start: 47028, Stop: 46792, Start Num: 34

Candidate Starts for Clammy_84:

(Start: 30 @47049 has 4 MA's), (Start: 34 @47028 has 7 MA's), (45, 46959), (50, 46926), (61, 46848),

Gene: CloudWang3_81 Start: 45345, Stop: 45124, Start Num: 33

Candidate Starts for CloudWang3_81:

(Start: 33 @45345 has 9 MA's), (36, 45333), (63, 45129),

Gene: Colin_79 Start: 47629, Stop: 47354, Start Num: 22

Candidate Starts for Colin_79:

(Start: 22 @47629 has 88 MA's), (39, 47563), (40, 47548), (51, 47485), (61, 47407),

Gene: Crucio_79 Start: 46848, Stop: 46531, Start Num: 22

Candidate Starts for Crucio_79:

(Start: 22 @46848 has 88 MA's), (39, 46737), (46, 46686), (47, 46680), (50, 46662), (58, 46620), (61, 46581),

Gene: DBQu4n_80 Start: 46541, Stop: 46269, Start Num: 22

Candidate Starts for DBQu4n_80:

(Start: 22 @46541 has 88 MA's), (39, 46478), (49, 46412), (61, 46322),

Gene: DarthPhader_87 Start: 50218, Stop: 50003, Start Num: 35

Candidate Starts for DarthPhader_87:

(28, 50251), (Start: 35 @50218 has 1 MA's), (39, 50191),

Gene: DeerParkTS_75 Start: 45386, Stop: 45114, Start Num: 22

Candidate Starts for DeerParkTS_75:

(Start: 22 @45386 has 88 MA's), (Start: 23 @45380 has 3 MA's), (39, 45323), (49, 45257), (61, 45167),

Gene: Deloris_79 Start: 46271, Stop: 45996, Start Num: 23

Candidate Starts for Deloris_79:

(Start: 22 @46277 has 88 MA's), (Start: 23 @46271 has 3 MA's), (36, 46223), (39, 46205), (47, 46148), (50, 46130), (58, 46088), (61, 46049),

Gene: Dignity_81 Start: 47132, Stop: 46812, Start Num: 22

Candidate Starts for Dignity_81:

(Start: 22 @47132 has 88 MA's), (29, 47078), (32, 47057), (36, 47039), (45, 46979), (46, 46970), (47, 46964), (50, 46946), (61, 46865),

Gene: Drake55_80 Start: 46578, Stop: 46258, Start Num: 22

Candidate Starts for Drake55_80:

(Start: 22 @46578 has 88 MA's), (36, 46485), (39, 46467), (47, 46410), (50, 46392), (61, 46311),

Gene: EZMoney23_75 Start: 46037, Stop: 45765, Start Num: 22

Candidate Starts for EZMoney23_75:

(3, 46337), (Start: 22 @46037 has 88 MA's), (Start: 23 @46031 has 3 MA's), (39, 45974), (49, 45908), (61, 45818),

Gene: Ebony_80 Start: 45555, Stop: 45280, Start Num: 22

Candidate Starts for Ebony_80:

(8, 45732), (Start: 22 @45555 has 88 MA's), (39, 45486), (42, 45465), (45, 45444), (49, 45420), (51, 45408), (61, 45330),

Gene: Elle_82 Start: 45871, Stop: 45602, Start Num: 21

Candidate Starts for Elle_82:

(21, 45871), (45, 45769), (51, 45733), (53, 45718), (56, 45703), (61, 45652),

Gene: Equemioh13_79 Start: 46550, Stop: 46230, Start Num: 22

Candidate Starts for Equemioh13_79:

(Start: 22 @46550 has 88 MA's), (29, 46496), (39, 46439), (46, 46388), (47, 46382), (50, 46364), (58, 46322), (61, 46283),

Gene: Et2Brutus_79 Start: 45518, Stop: 45243, Start Num: 22

Candidate Starts for Et2Brutus_79:

(6, 45758), (8, 45695), (Start: 22 @45518 has 88 MA's), (39, 45449), (42, 45428), (45, 45407), (49, 45383), (51, 45371), (61, 45293),

Gene: EvilGenius_79 Start: 47962, Stop: 47693, Start Num: 22

Candidate Starts for EvilGenius_79:

(Start: 22 @47962 has 88 MA's), (Start: 23 @47956 has 3 MA's), (Start: 35 @47926 has 1 MA's), (36, 47917), (39, 47899), (46, 47848), (47, 47842), (50, 47824), (58, 47782), (61, 47743),

Gene: FatCactus_73 Start: 44985, Stop: 44743, Start Num: 33

Candidate Starts for FatCactus_73:

(Start: 33 @44985 has 9 MA's), (37, 44970), (39, 44955), (55, 44859), (59, 44838), (61, 44802), (62, 44772),

Gene: Fibonacci_79 Start: 45524, Stop: 45249, Start Num: 22

Candidate Starts for Fibonacci_79:

(6, 45764), (8, 45701), (Start: 22 @45524 has 88 MA's), (39, 45455), (42, 45434), (45, 45413), (49, 45389), (51, 45377), (61, 45299),

Gene: FiringLine_79 Start: 46830, Stop: 46513, Start Num: 22

Candidate Starts for FiringLine_79:

(Start: 22 @46830 has 88 MA's), (39, 46719), (46, 46668), (47, 46662), (50, 46644), (58, 46602), (61, 46563),

Gene: First_0080 Start: 46674, Stop: 46357, Start Num: 22

Candidate Starts for First_0080:

(Start: 22 @46674 has 88 MA's), (39, 46563), (46, 46512), (47, 46506), (50, 46488), (58, 46446), (61, 46407),

Gene: Flare16_79 Start: 46365, Stop: 46045, Start Num: 22

Candidate Starts for Flare16_79:

(Start: 22 @46365 has 88 MA's), (29, 46311), (39, 46254), (46, 46203), (47, 46197), (50, 46179), (58, 46137), (61, 46098),

Gene: Flaverint_81 Start: 45982, Stop: 45707, Start Num: 22

Candidate Starts for Flaverint_81:

(6, 46222), (8, 46159), (Start: 22 @45982 has 88 MA's), (39, 45913), (42, 45892), (45, 45871), (49, 45847), (51, 45835), (61, 45757),

Gene: ForesterFrank_74 Start: 46584, Stop: 46300, Start Num: 20

Candidate Starts for ForesterFrank_74:

(7, 46779), (10, 46731), (17, 46593), (Start: 20 @46584 has 2 MA's), (Start: 22 @46581 has 88 MA's), (39, 46515), (49, 46449), (56, 46410), (61, 46359),

Gene: Fred313_80 Start: 46658, Stop: 46422, Start Num: 34

Candidate Starts for Fred313_80:

(Start: 30 @46679 has 4 MA's), (Start: 34 @46658 has 7 MA's), (45, 46589), (50, 46556),

Gene: Georgie2_81 Start: 47034, Stop: 46717, Start Num: 22

Candidate Starts for Georgie2_81:

(Start: 22 @47034 has 88 MA's), (39, 46923), (46, 46872), (47, 46866), (50, 46848), (58, 46806), (61, 46767),

Gene: Gilberta_77 Start: 44858, Stop: 44583, Start Num: 22

Candidate Starts for Gilberta_77:

(6, 45098), (8, 45035), (Start: 22 @44858 has 88 MA's), (39, 44789), (42, 44768), (45, 44747), (49, 44723), (51, 44711), (61, 44633),

Gene: Giroux_86 Start: 47027, Stop: 46791, Start Num: 34

Candidate Starts for Giroux_86:

(Start: 30 @47048 has 4 MA's), (Start: 34 @47027 has 7 MA's), (45, 46958), (50, 46925), (61, 46847),

Gene: Gladiator_77 Start: 45001, Stop: 44780, Start Num: 33

Candidate Starts for Gladiator_77:

(Start: 33 @45001 has 9 MA's), (36, 44989), (63, 44785),

Gene: Gratitude_77 Start: 46550, Stop: 46230, Start Num: 22

Candidate Starts for Gratitude_77:

(Start: 22 @46550 has 88 MA's), (29, 46496), (39, 46439), (46, 46388), (47, 46382), (50, 46364), (58, 46322), (61, 46283),

Gene: Gruunaga_80 Start: 44956, Stop: 44735, Start Num: 33

Candidate Starts for Gruunaga_80:

(Start: 33 @44956 has 9 MA's), (36, 44944), (63, 44740),

Gene: Hammer_81 Start: 44663, Stop: 44442, Start Num: 33

Candidate Starts for Hammer_81:

(Start: 33 @44663 has 9 MA's), (36, 44651), (63, 44447),

Gene: HarryHoudini_79 Start: 46575, Stop: 46255, Start Num: 22

Candidate Starts for HarryHoudini_79:

(Start: 22 @46575 has 88 MA's), (36, 46482), (39, 46464), (47, 46407), (50, 46389), (61, 46308),

Gene: Heathen_82 Start: 46746, Stop: 46510, Start Num: 34

Candidate Starts for Heathen_82:

(Start: 30 @46767 has 4 MA's), (Start: 34 @46746 has 7 MA's), (45, 46677), (50, 46644),

Gene: HelDan_83 Start: 46990, Stop: 46733, Start Num: 30

Candidate Starts for HelDan_83:

(Start: 30 @46990 has 4 MA's), (Start: 34 @46969 has 7 MA's), (45, 46900), (50, 46867),

Gene: Hexamo_80 Start: 44831, Stop: 44610, Start Num: 33

Candidate Starts for Hexamo_80:

(Start: 33 @44831 has 9 MA's), (36, 44819), (63, 44615),

Gene: HippoHollow_76 Start: 47561, Stop: 47280, Start Num: 22

Candidate Starts for HippoHollow_76:

(Start: 22 @47561 has 88 MA's), (Start: 23 @47555 has 3 MA's), (39, 47489), (46, 47438), (47, 47432), (50, 47414), (58, 47372), (61, 47333),

Gene: Hutc2_76 Start: 44408, Stop: 44133, Start Num: 22

Candidate Starts for Hutc2_76:

(6, 44648), (8, 44585), (Start: 22 @44408 has 88 MA's), (39, 44339), (42, 44318), (45, 44297), (49, 44273), (51, 44261), (61, 44183),

Gene: Idleandcovert_83 Start: 47049, Stop: 46792, Start Num: 30

Candidate Starts for Idleandcovert_83:

(Start: 30 @47049 has 4 MA's), (Start: 34 @47028 has 7 MA's), (45, 46959), (50, 46926), (61, 46848),

Gene: Insomnia_79 Start: 45699, Stop: 45424, Start Num: 22

Candidate Starts for Insomnia_79:

(6, 45939), (8, 45876), (Start: 22 @45699 has 88 MA's), (39, 45630), (42, 45609), (45, 45588), (49, 45564), (51, 45552), (61, 45474),

Gene: Iwokeuplikedis_81 Start: 47056, Stop: 46784, Start Num: 22

Candidate Starts for Iwokeuplikedis_81:

(Start: 22 @47056 has 88 MA's), (Start: 23 @47050 has 3 MA's), (39, 46993), (47, 46936), (50, 46918), (58, 46876), (61, 46837),

Gene: Jabith_79 Start: 45716, Stop: 45441, Start Num: 22

Candidate Starts for Jabith_79:

(6, 45956), (8, 45893), (Start: 22 @45716 has 88 MA's), (39, 45647), (42, 45626), (45, 45605), (49, 45581), (51, 45569), (61, 45491),

Gene: Jerm_81 Start: 47115, Stop: 46795, Start Num: 22

Candidate Starts for Jerm_81:

(Start: 22 @47115 has 88 MA's), (29, 47061), (32, 47040), (36, 47022), (45, 46962), (46, 46953), (47, 46947), (50, 46929), (61, 46848),

Gene: Joselito_79 Start: 45736, Stop: 45461, Start Num: 22

Candidate Starts for Joselito_79:

(6, 45976), (8, 45913), (Start: 22 @45736 has 88 MA's), (39, 45667), (42, 45646), (45, 45625), (49, 45601), (51, 45589), (61, 45511),

Gene: JoshKayV_81 Start: 47259, Stop: 46987, Start Num: 22

Candidate Starts for JoshKayV_81:

(Start: 22 @47259 has 88 MA's), (29, 47253), (36, 47214), (45, 47154), (46, 47145), (47, 47139), (50, 47121), (61, 47040),

Gene: Kachowdy_81 Start: 46998, Stop: 46762, Start Num: 34

Candidate Starts for Kachowdy_81:

(Start: 30 @47019 has 4 MA's), (Start: 34 @46998 has 7 MA's), (45, 46929), (50, 46896),

Gene: Kerberos_80 Start: 46561, Stop: 46289, Start Num: 22

Candidate Starts for Kerberos_80:

(Start: 22 @46561 has 88 MA's), (39, 46498), (49, 46432), (61, 46342),

Gene: Kimba_78 Start: 45236, Stop: 44961, Start Num: 22

Candidate Starts for Kimba_78:

(8, 45413), (Start: 22 @45236 has 88 MA's), (39, 45167), (42, 45146), (45, 45125), (49, 45101), (51, 45089), (61, 45011),

Gene: KingCyrus_78 Start: 47984, Stop: 47667, Start Num: 22

Candidate Starts for KingCyrus_78:

(Start: 22 @47984 has 88 MA's), (39, 47873), (46, 47822), (47, 47816), (50, 47798), (58, 47756), (61, 47717),

Gene: LadyBird_83 Start: 47185, Stop: 46904, Start Num: 22

Candidate Starts for LadyBird_83:

(Start: 22 @47185 has 88 MA's), (Start: 23 @47179 has 3 MA's), (36, 47131), (39, 47113), (47, 47056), (50, 47038), (58, 46996), (61, 46957),

Gene: Larenn_77 Start: 46535, Stop: 46206, Start Num: 22

Candidate Starts for Larenn_77:

(Start: 22 @46535 has 88 MA's), (25, 46502), (29, 46472), (36, 46433), (39, 46415), (46, 46364), (47, 46358), (50, 46340), (58, 46298), (61, 46259),

Gene: Leviathan_81 Start: 47181, Stop: 46861, Start Num: 22

Candidate Starts for Leviathan_81:

(Start: 22 @47181 has 88 MA's), (29, 47127), (32, 47106), (36, 47088), (45, 47028), (46, 47019), (47, 47013), (50, 46995), (61, 46914),

Gene: LilTurb_80 Start: 46995, Stop: 46675, Start Num: 22

Candidate Starts for LilTurb_80:

(Start: 22 @46995 has 88 MA's), (29, 46941), (32, 46920), (36, 46902), (45, 46842), (46, 46833), (47, 46827), (50, 46809), (61, 46728),

Gene: LionsBait_78 Start: 47560, Stop: 47279, Start Num: 22

Candidate Starts for LionsBait_78:

(Start: 22 @47560 has 88 MA's), (Start: 23 @47554 has 3 MA's), (39, 47488), (46, 47437), (47, 47431), (50, 47413), (58, 47371), (61, 47332),

Gene: LogiBear_77 Start: 44652, Stop: 44383, Start Num: 23

Candidate Starts for LogiBear_77:

(Start: 23 @44652 has 3 MA's), (50, 44517), (60, 44463), (61, 44433),

Gene: Lokk_74 Start: 45070, Stop: 44786, Start Num: 20

Candidate Starts for Lokk_74:

(7, 45265), (10, 45217), (17, 45079), (Start: 20 @45070 has 2 MA's), (Start: 22 @45067 has 88 MA's), (39, 45001), (52, 44920), (56, 44896), (61, 44845), (65, 44797),

Gene: Loser_83 Start: 47509, Stop: 47237, Start Num: 22

Candidate Starts for Loser_83:

(Start: 22 @47509 has 88 MA's), (Start: 23 @47503 has 3 MA's), (39, 47446), (49, 47380), (54, 47353), (61, 47290),

Gene: Lucivia_81 Start: 46015, Stop: 45740, Start Num: 22

Candidate Starts for Lucivia_81:

(6, 46255), (8, 46192), (Start: 22 @46015 has 88 MA's), (39, 45946), (42, 45925), (45, 45904), (49, 45880), (51, 45868), (61, 45790),

Gene: Lucyedi_81 Start: 46771, Stop: 46526, Start Num: 33

Candidate Starts for Lucyedi_81:

(16, 46888), (21, 46858), (31, 46783), (Start: 33 @46771 has 9 MA's), (44, 46711),

Gene: MaCh_80 Start: 45979, Stop: 45704, Start Num: 22

Candidate Starts for MaCh_80:

(6, 46219), (8, 46156), (Start: 22 @45979 has 88 MA's), (39, 45910), (42, 45889), (45, 45868), (49, 45844), (51, 45832), (61, 45754),

Gene: Mabel_80 Start: 45980, Stop: 45705, Start Num: 22

Candidate Starts for Mabel_80:

(6, 46220), (8, 46157), (Start: 22 @45980 has 88 MA's), (39, 45911), (42, 45890), (45, 45869), (49, 45845), (51, 45833), (61, 45755),

Gene: Malec_78 Start: 47105, Stop: 46776, Start Num: 22

Candidate Starts for Malec_78:

(Start: 22 @47105 has 88 MA's), (25, 47072), (29, 47042), (36, 47003), (39, 46985), (46, 46934), (47, 46928), (50, 46910), (58, 46868), (61, 46829),

Gene: MiculUcigas_79 Start: 46268, Stop: 45948, Start Num: 22

Candidate Starts for MiculUcigas_79:

(Start: 22 @46268 has 88 MA's), (29, 46214), (39, 46157), (46, 46106), (47, 46100), (50, 46082), (58, 46040), (61, 46001),

Gene: Miko_74 Start: 45841, Stop: 45563, Start Num: 22

Candidate Starts for Miko_74:

(4, 46138), (Start: 22 @45841 has 88 MA's), (Start: 23 @45835 has 3 MA's), (39, 45778), (52, 45697), (56, 45673), (61, 45622), (65, 45574),

Gene: MissWhite_74 Start: 43643, Stop: 43320, Start Num: 22

Candidate Starts for MissWhite_74:

(12, 43754), (14, 43748), (Start: 22 @43643 has 88 MA's), (Start: 23 @43637 has 3 MA's), (39, 43577), (42, 43556), (49, 43511), (64, 43373),

Gene: Mulciber_78 Start: 45521, Stop: 45246, Start Num: 22

Candidate Starts for Mulciber_78:

(6, 45761), (8, 45698), (Start: 22 @45521 has 88 MA's), (39, 45452), (42, 45431), (45, 45410), (49, 45386), (51, 45374), (61, 45296),

Gene: Munch_80 Start: 45984, Stop: 45709, Start Num: 22

Candidate Starts for Munch_80:

(6, 46224), (8, 46161), (Start: 22 @45984 has 88 MA's), (39, 45915), (42, 45894), (45, 45873), (49, 45849), (51, 45837), (61, 45759),

Gene: NaSiaTalie_80 Start: 46561, Stop: 46298, Start Num: 22

Candidate Starts for NaSiaTalie_80:

(Start: 22 @46561 has 88 MA's), (26, 46540), (40, 46489), (51, 46426),

Gene: NicoleTera_77 Start: 46504, Stop: 46226, Start Num: 22

Candidate Starts for NicoleTera_77:

(Start: 22 @46504 has 88 MA's), (Start: 23 @46498 has 3 MA's), (39, 46441), (49, 46375), (56, 46336), (61, 46285), (65, 46237),

Gene: NothingSpecial_73 Start: 46180, Stop: 45911, Start Num: 22

Candidate Starts for NothingSpecial_73:

(Start: 22 @46180 has 88 MA's), (Start: 23 @46174 has 3 MA's), (36, 46135), (39, 46117), (47, 46060), (50, 46042), (61, 45961),

Gene: Orange_80 Start: 45534, Stop: 45259, Start Num: 22

Candidate Starts for Orange_80:

(6, 45774), (8, 45711), (Start: 22 @45534 has 88 MA's), (39, 45465), (42, 45444), (45, 45423), (49, 45399), (51, 45387), (61, 45309),

Gene: PainterBoy_81 Start: 46481, Stop: 46236, Start Num: 33

Candidate Starts for PainterBoy_81:

(16, 46598), (21, 46568), (31, 46493), (Start: 33 @46481 has 9 MA's), (44, 46421),

Gene: Petersenfast_74 Start: 44415, Stop: 44140, Start Num: 22

Candidate Starts for Petersenfast_74:

(6, 44655), (8, 44592), (Start: 22 @44415 has 88 MA's), (39, 44346), (42, 44325), (45, 44304), (49, 44280), (51, 44268), (61, 44190),

Gene: Piro94_78 Start: 46509, Stop: 46189, Start Num: 22

Candidate Starts for Piro94_78:

(Start: 22 @46509 has 88 MA's), (36, 46416), (39, 46398), (47, 46341), (50, 46323), (61, 46242),

Gene: Pistachio_83 Start: 46575, Stop: 46339, Start Num: 34

Candidate Starts for Pistachio_83:

(Start: 30 @46596 has 4 MA's), (Start: 34 @46575 has 7 MA's), (45, 46506), (50, 46473), (61, 46395),

Gene: Pomar16_80 Start: 46631, Stop: 46359, Start Num: 22

Candidate Starts for Pomar16_80:

(Start: 22 @46631 has 88 MA's), (39, 46568), (49, 46502), (61, 46412),

Gene: Power_79 Start: 47033, Stop: 46716, Start Num: 22

Candidate Starts for Power_79:

(Start: 22 @47033 has 88 MA's), (39, 46922), (46, 46871), (47, 46865), (50, 46847), (58, 46805), (61, 46766),

Gene: Priamo_82 Start: 45237, Stop: 44977, Start Num: 22

Candidate Starts for Priamo_82:

(Start: 22 @45237 has 88 MA's), (39, 45177), (40, 45162), (51, 45099), (61, 45021), (64, 44982),

Gene: Prudy_74 Start: 46871, Stop: 46599, Start Num: 22

Candidate Starts for Prudy_74:

(2, 47162), (3, 47159), (13, 46958), (Start: 22 @46871 has 88 MA's), (Start: 23 @46865 has 3 MA's), (39, 46808), (49, 46742), (61, 46652),

Gene: Puppy_84 Start: 46645, Stop: 46409, Start Num: 34

Candidate Starts for Puppy_84:

(Start: 30 @46666 has 4 MA's), (Start: 34 @46645 has 7 MA's), (45, 46576), (50, 46543),

Gene: QueenBeesly_79 Start: 46830, Stop: 46513, Start Num: 22

Candidate Starts for QueenBeesly_79:

(Start: 22 @46830 has 88 MA's), (39, 46719), (46, 46668), (47, 46662), (50, 46644), (58, 46602), (61, 46563),

Gene: Rachaly_76 Start: 45987, Stop: 45709, Start Num: 22

Candidate Starts for Rachaly_76:

(5, 46284), (Start: 22 @45987 has 88 MA's), (Start: 23 @45981 has 3 MA's), (36, 45942), (39, 45924), (47, 45867), (50, 45849), (58, 45807), (61, 45768), (66, 45720),

Gene: RedRock_79 Start: 47115, Stop: 46849, Start Num: 23

Candidate Starts for RedRock_79:

(1, 47439), (3, 47433), (Start: 22 @47121 has 88 MA's), (Start: 23 @47115 has 3 MA's), (39, 47058), (49, 46992), (54, 46965), (61, 46902),

Gene: Rifter_81 Start: 44458, Stop: 44243, Start Num: 33

Candidate Starts for Rifter_81:

(Start: 33 @44458 has 9 MA's), (36, 44446),

Gene: Roimos_82 Start: 46884, Stop: 46648, Start Num: 34

Candidate Starts for Roimos_82:

(Start: 30 @46905 has 4 MA's), (Start: 34 @46884 has 7 MA's), (45, 46815), (50, 46782),

Gene: Salz_75 Start: 44330, Stop: 44055, Start Num: 22

Candidate Starts for Salz_75:

(6, 44570), (8, 44507), (Start: 22 @44330 has 88 MA's), (39, 44261), (42, 44240), (45, 44219), (49, 44195), (51, 44183), (61, 44105),

Gene: Saskia_77 Start: 44878, Stop: 44603, Start Num: 22

Candidate Starts for Saskia_77:

(8, 45055), (Start: 22 @44878 has 88 MA's), (39, 44809), (42, 44788), (45, 44767), (49, 44743), (51, 44731), (61, 44653),

Gene: SaturnRing_84 Start: 47028, Stop: 46792, Start Num: 34

Candidate Starts for SaturnRing_84:

(Start: 30 @47049 has 4 MA's), (Start: 34 @47028 has 7 MA's), (45, 46959), (50, 46926), (61, 46848),

Gene: Scout_82 Start: 46209, Stop: 45973, Start Num: 34

Candidate Starts for Scout_82:

(Start: 30 @46230 has 4 MA's), (Start: 34 @46209 has 7 MA's), (45, 46140), (50, 46107),

Gene: SemperFi_79 Start: 46718, Stop: 46401, Start Num: 22

Candidate Starts for SemperFi_79:

(Start: 22 @46718 has 88 MA's), (39, 46607), (46, 46556), (47, 46550), (50, 46532), (58, 46490), (61, 46451),

Gene: Sham4_76 Start: 44413, Stop: 44138, Start Num: 22

Candidate Starts for Sham4_76:

(6, 44653), (8, 44590), (Start: 22 @44413 has 88 MA's), (39, 44344), (42, 44323), (45, 44302), (49, 44278), (51, 44266), (61, 44188),

Gene: Sknot_79 Start: 46362, Stop: 46042, Start Num: 22

Candidate Starts for Sknot_79:

(Start: 22 @46362 has 88 MA's), (29, 46308), (39, 46251), (46, 46200), (47, 46194), (50, 46176), (58, 46134), (61, 46095),

Gene: Smeagan_82 Start: 47272, Stop: 46952, Start Num: 22

Candidate Starts for Smeagan_82:

(Start: 22 @47272 has 88 MA's), (29, 47218), (32, 47197), (36, 47179), (45, 47119), (46, 47110), (47, 47104), (50, 47086), (61, 47005),

Gene: SnapTap_79 Start: 46689, Stop: 46372, Start Num: 22

Candidate Starts for SnapTap_79:

(Start: 22 @46689 has 88 MA's), (39, 46578), (46, 46527), (47, 46521), (50, 46503), (58, 46461), (61, 46422),

Gene: Snape_80 Start: 45523, Stop: 45248, Start Num: 22

Candidate Starts for Snape_80:

(6, 45763), (8, 45700), (Start: 22 @45523 has 88 MA's), (39, 45454), (42, 45433), (45, 45412), (49, 45388), (51, 45376), (61, 45298),

Gene: Soshari_85 Start: 46274, Stop: 46065, Start Num: 38

Candidate Starts for Soshari_85:

(27, 46337), (Start: 35 @46295 has 1 MA's), (36, 46286), (Start: 38 @46274 has 2 MA's), (39, 46268), (49, 46202),

Gene: StarStuff_80 Start: 46596, Stop: 46324, Start Num: 22

Candidate Starts for StarStuff_80:

(Start: 22 @46596 has 88 MA's), (39, 46533), (49, 46467), (61, 46377),

Gene: StepMih_83 Start: 46244, Stop: 46035, Start Num: 38

Candidate Starts for StepMih_83:

(27, 46307), (Start: 35 @46265 has 1 MA's), (36, 46256), (Start: 38 @46244 has 2 MA's), (39, 46238), (49, 46172),

Gene: SweetiePie_79 Start: 46821, Stop: 46504, Start Num: 22

Candidate Starts for SweetiePie_79:

(Start: 22 @46821 has 88 MA's), (39, 46710), (46, 46659), (47, 46653), (50, 46635), (58, 46593), (61, 46554),

Gene: TNguyen7_84 Start: 47007, Stop: 46750, Start Num: 30

Candidate Starts for TNguyen7_84:

(Start: 30 @47007 has 4 MA's), (Start: 34 @46986 has 7 MA's), (45, 46917), (50, 46884), (61, 46806),

Gene: TarsusIV_79 Start: 46873, Stop: 46601, Start Num: 22

Candidate Starts for TarsusIV_79:

(Start: 22 @46873 has 88 MA's), (Start: 23 @46867 has 3 MA's), (36, 46828), (39, 46810), (46, 46759), (47, 46753), (50, 46735), (61, 46654),

Gene: Terrific_80 Start: 46336, Stop: 46016, Start Num: 22

Candidate Starts for Terrific_80:

(Start: 22 @46336 has 88 MA's), (29, 46282), (39, 46225), (46, 46174), (47, 46168), (50, 46150), (58, 46108), (61, 46069),

Gene: Timothy_80 Start: 45500, Stop: 45225, Start Num: 22

Candidate Starts for Timothy_80:

(6, 45740), (8, 45677), (Start: 22 @45500 has 88 MA's), (39, 45431), (42, 45410), (45, 45389), (49, 45365), (51, 45353), (61, 45275),

Gene: TinyTimmy_79 Start: 45229, Stop: 44954, Start Num: 22

Candidate Starts for TinyTimmy_79:

(6, 45469), (8, 45406), (Start: 22 @45229 has 88 MA's), (39, 45160), (42, 45139), (45, 45118), (49, 45094), (51, 45082), (61, 45004),

Gene: Tomathan_80 Start: 46674, Stop: 46402, Start Num: 22

Candidate Starts for Tomathan_80:

(Start: 22 @46674 has 88 MA's), (39, 46611), (49, 46545), (61, 46455),

Gene: Travvers_80 Start: 46591, Stop: 46319, Start Num: 22

Candidate Starts for Travvers_80:

(Start: 22 @46591 has 88 MA's), (39, 46528), (49, 46462), (61, 46372),

Gene: Trixie_80 Start: 47546, Stop: 47271, Start Num: 22

Candidate Starts for Trixie_80:

(Start: 22 @47546 has 88 MA's), (39, 47480), (50, 47405), (54, 47387), (61, 47324),

Gene: Trooper_79 Start: 46430, Stop: 46158, Start Num: 22

Candidate Starts for Trooper_79:

(11, 46544), (Start: 22 @46430 has 88 MA's), (Start: 23 @46424 has 3 MA's), (36, 46385), (39, 46367), (47, 46310), (50, 46292), (58, 46250), (61, 46211),

Gene: Turbido_80 Start: 46993, Stop: 46673, Start Num: 22

Candidate Starts for Turbido_80:

(Start: 22 @46993 has 88 MA's), (29, 46939), (32, 46918), (36, 46900), (45, 46840), (46, 46831), (47, 46825), (50, 46807), (61, 46726),

Gene: Updawg_80 Start: 46550, Stop: 46230, Start Num: 22

Candidate Starts for Updawg_80:

(Start: 22 @46550 has 88 MA's), (29, 46496), (39, 46439), (46, 46388), (47, 46382), (50, 46364), (58, 46322), (61, 46283),

Gene: VA6_79 Start: 46565, Stop: 46284, Start Num: 22

Candidate Starts for VA6_79:

(Start: 22 @46565 has 88 MA's), (Start: 23 @46559 has 3 MA's), (36, 46511), (39, 46493), (41, 46475), (47, 46436), (50, 46418), (58, 46376), (61, 46337),

Gene: VC3_78 Start: 45517, Stop: 45221, Start Num: 22

Candidate Starts for VC3_78:

(Start: 22 @45517 has 88 MA's), (49, 45385), (61, 45295),

Gene: Whabigail7_79 Start: 46991, Stop: 46671, Start Num: 22

Candidate Starts for Whabigail7_79:

(Start: 22 @46991 has 88 MA's), (29, 46937), (32, 46916), (36, 46898), (45, 46838), (46, 46829), (47, 46823), (50, 46805), (61, 46724),

Gene: WideWale_80 Start: 46550, Stop: 46230, Start Num: 22

Candidate Starts for WideWale_80:

(Start: 22 @46550 has 88 MA's), (29, 46496), (39, 46439), (46, 46388), (47, 46382), (50, 46364), (58, 46322), (61, 46283),

Gene: Wolpertinger_79 Start: 45532, Stop: 45257, Start Num: 22

Candidate Starts for Wolpertinger_79:

(6, 45772), (8, 45709), (Start: 22 @45532 has 88 MA's), (39, 45463), (42, 45442), (45, 45421), (49, 45397), (51, 45385), (61, 45307),

Gene: XianYue_78 Start: 46882, Stop: 46607, Start Num: 22

Candidate Starts for XianYue_78:

(11, 46996), (Start: 22 @46882 has 88 MA's), (39, 46813), (49, 46747), (50, 46738), (56, 46708), (61, 46657),