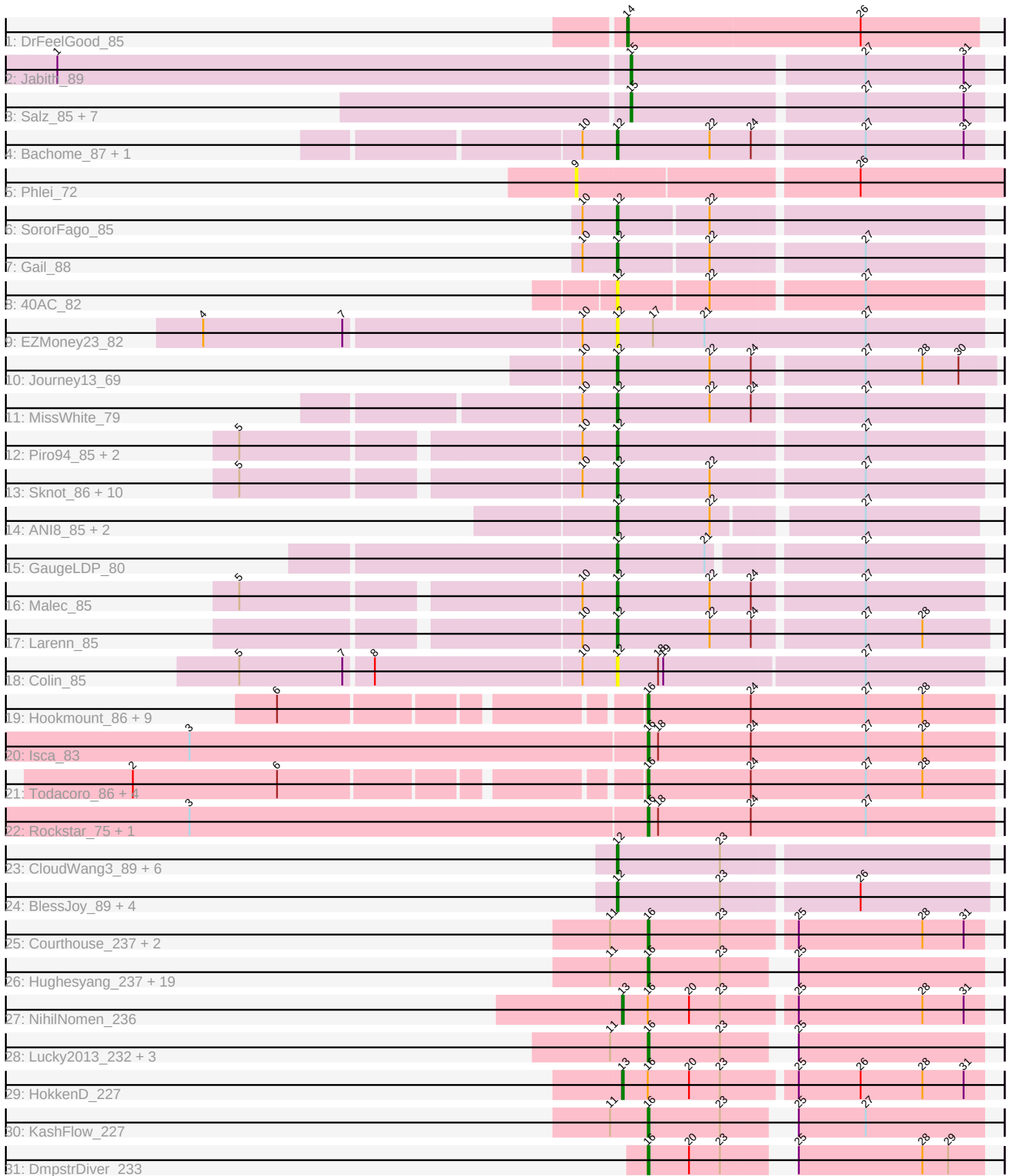




Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 280281 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280281 has 101 members, 15 are drafts.

Phages represented in each track:

- Track 1 : DrFeelGood_85
- Track 2 : Jabith_89
- Track 3 : Salz_85, Sham4_86, Et2Brutus_89, Insomnia_89, Wolpertinger_89, Mulciber_88, Hutc2_86, Fibonacci_89
- Track 4 : Bachome_87, Saskia_86
- Track 5 : Phlei_72
- Track 6 : SororFago_85
- Track 7 : Gail_88
- Track 8 : 40AC_82
- Track 9 : EZMoney23_82
- Track 10 : Journey13_69
- Track 11 : MissWhite_79
- Track 12 : Piro94_85, Drake55_87, HarryHoudini_86
- Track 13 : Sknot_86, NaSiaTalie_87, WideWale_87, Baehexic_85, Flare16_86, Equemioh13_86, MiculUcigas_86, Updawg_87, Terrific_87, Gratitude_84, Centaur_86
- Track 14 : ANI8_85, VC3_84, C3_78
- Track 15 : GaugeLDP_80
- Track 16 : Malec_85
- Track 17 : Larenn_85
- Track 18 : Colin_85
- Track 19 : Hookmount_86, EtoileNova_83, Caviar_75, Popcicle_86, ResDef_84, Noella_87, Panamaxus_82, Pocahontas_85, Norbert_82, Texage_84
- Track 20 : Isca_83
- Track 21 : Todacoro_86, Veracruz_83, Margo_86, QuinnKiro_85, Lambert1_86
- Track 22 : Rockstar_75, Phantastic_87
- Track 23 : CloudWang3_89, Roksolana_89, Hexamo_88, Rifter_89, Gruunaga_88, Artemis2UCLA_88, Gladiator_85
- Track 24 : BlessJoy_89, ToneTone_86, Hammer_89, Tucker_89, Lilbunny_88
- Track 25 : Courthouse_237, Superphikiman_233, Ariel_241
- Track 26 : Hughesyang_237, Redno2_226, Zelink_228, Shaboozey_232, Squint_233, Klein_242, Hannaconda_225, Odette_234, Dove_217, Yeet_229, Bagrid_240, EricMillard_232, Beem_238, Nekros_235, Ejimix_226, Schatzie_227, BronnyJames_226, Phoebus_233, Nibley_225, JuicyJay_230
- Track 27 : NihilNomen_236
- Track 28 : Lucky2013_232, Porcelain_236, MiaZeal_245, Wanda_234
- Track 29 : HokkenD_227

- Track 30 : KashFlow_227
- Track 31 : DmpstrDiver_233

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

The start number called the most often in the published annotations is 16, it was called in 40 of the 86 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ariel_241, Bagrid_240, Beem_238, BronnyJames_226, Caviar_75, Courthouse_237, DmpstrDiver_233, Dove_217, Ejimix_226, EricMillard_232, EtoileNova_83, Hannaconda_225, Hookmount_86, Hughesyang_237, Isca_83, JuicyJay_230, KashFlow_227, Klein_242, Lambert1_86, Lucky2013_232, Margo_86, MiaZeal_245, Nekros_235, Nibley_225, Noella_87, Norbert_82, Odette_234, Panamaxus_82, Phantastic_87, Phoebus_233, Pocahontas_85, Popcicle_86, Porcelain_236, QuinnKiro_85, Redno2_226, ResDef_84, Rockstar_75, Schatzie_227, Shaboozey_232, Squint_233, Superphikiman_233, Texage_84, Todacoro_86, Veracruz_83, Wanda_234, Yeet_229, Zelink_228,

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

- HokkenD_227, NihilNomen_236,

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

- 40AC_82, ANI8_85, Artemis2UCLA_88, Bachome_87, Baehexic_85, BlessJoy_89, C3_78, Centaur_86, CloudWang3_89, Colin_85, DrFeelGood_85, Drake55_87, EZMoney23_82, Equemioh13_86, Et2Brutus_89, Fibonacci_89, Flare16_86, Gail_88, GaugeLDP_80, Gladiator_85, Gratitude_84, Gruunaga_88, Hammer_89, HarryHoudini_86, Hexamo_88, Hutc2_86, Insomnia_89, Jabith_89, Journey13_69, Larenn_85, Lilbunny_88, Malec_85, MiculUcigas_86, MissWhite_79, Mulciber_88, NaSiaTalie_87, Phlei_72, Piro94_85, Rifter_89, Roksolana_89, Salz_85, Saskia_86, Sham4_86, Sknot_86, SororFago_85, Terrific_87, ToneTone_86, Tucker_89, Updawg_87, VC3_84, WideWale_87, Wolpertinger_89,

Summary by start number:

Start 9:

- Found in 1 of 101 (1.0%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Phlei_72 (A13),

Start 12:

- Found in 41 of 101 (40.6%) of genes in pham
- Manual Annotations of this start: 35 of 86
- Called 100.0% of time when present
- Phage (with cluster) where this start called: 40AC_82 (A17), ANI8_85 (A2), Artemis2UCLA_88 (A6), Bachome_87 (A11), Baehexic_85 (A2), BlessJoy_89 (A6), C3_78 (A2), Centaur_86 (A2), CloudWang3_89 (A6), Colin_85 (A2), Drake55_87 (A2), EZMoney23_82 (A2), Equemioh13_86 (A2), Flare16_86 (A2), Gail_88 (A14), GaugeLDP_80 (A2), Gladiator_85 (A6), Gratitude_84 (A2), Gruunaga_88 (A6),

Hammer_89 (A6), HarryHoudini_86 (A2), Hexamo_88 (A6), Journey13_69 (A2), Larenn_85 (A2), Lilbunny_88 (A6), Malec_85 (A2), MiculUcigas_86 (A2), MissWhite_79 (A2), NaSiāTalie_87 (A2), Piro94_85 (A2), Rifter_89 (A6), Roksolana_89 (A6), Saskia_86 (A11), Sknot_86 (A2), SororFago_85 (A14), Terrific_87 (A2), ToneTone_86 (A6), Tucker_89 (A6), Updawg_87 (A2), VC3_84 (A2), WideWale_87 (A2),

Start 13:

- Found in 2 of 101 (2.0%) of genes in pham
- Manual Annotations of this start: 2 of 86
- Called 100.0% of time when present
- Phage (with cluster) where this start called: HokkenD_227 (J), NihilNomen_236 (J),

Start 14:

- Found in 1 of 101 (1.0%) of genes in pham
- Manual Annotations of this start: 1 of 86
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DrFeelGood_85 (A1),

Start 15:

- Found in 9 of 101 (8.9%) of genes in pham
- Manual Annotations of this start: 8 of 86
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Et2Brutus_89 (A11), Fibonacci_89 (A11), Hutc2_86 (A11), Insomnia_89 (A11), Jabith_89 (A11), Mulciber_88 (A11), Salz_85 (A11), Sham4_86 (A11), Wolpertinger_89 (A11),

Start 16:

- Found in 49 of 101 (48.5%) of genes in pham
- Manual Annotations of this start: 40 of 86
- Called 95.9% of time when present
- Phage (with cluster) where this start called: Ariel_241 (J), Bagrid_240 (J), Beem_238 (J), BronnyJames_226 (J), Caviar_75 (A3), Courthouse_237 (J), DmpstrDiver_233 (J), Dove_217 (J), Ejimix_226 (J), EricMillard_232 (J), EtoileNova_83 (A3), Hannaconda_225 (J), Hookmount_86 (A3), Hughesyang_237 (J), Isca_83 (A3), JuicyJay_230 (J), KashFlow_227 (J), Klein_242 (J), Lambert1_86 (A3), Lucky2013_232 (J), Margo_86 (A3), MiaZeal_245 (J), Nekros_235 (J), Nibley_225 (J), Noella_87 (A3), Norbert_82 (A3), Odette_234 (J), Panamaxus_82 (A3), Phantastic_87 (A3), Phoebus_233 (J), Pocahontas_85 (A3), Popcicle_86 (A3), Porcelain_236 (J), QuinnKiro_85 (A3), Redno2_226 (J), ResDef_84 (A3), Rockstar_75 (A3), Schatzie_227 (J), Shaboozey_232 (J), Squint_233 (J), Superphikiman_233 (J), Texage_84 (A3), Todacoro_86 (A3), Veracruz_83 (A3), Wanda_234 (J), Yeet_229 (J), Zelink_228 (J),

Summary by clusters:

There are 9 clusters represented in this pham: A14, A17, A11, A13, J, A1, A3, A2, A6,

Info for manual annotations of cluster A1:

- Start number 14 was manually annotated 1 time for cluster A1.

Info for manual annotations of cluster A11:

- Start number 12 was manually annotated 1 time for cluster A11.

- Start number 15 was manually annotated 8 times for cluster A11.

Info for manual annotations of cluster A14:

- Start number 12 was manually annotated 2 times for cluster A14.

Info for manual annotations of cluster A2:

- Start number 12 was manually annotated 20 times for cluster A2.

Info for manual annotations of cluster A3:

- Start number 16 was manually annotated 17 times for cluster A3.

Info for manual annotations of cluster A6:

- Start number 12 was manually annotated 12 times for cluster A6.

Info for manual annotations of cluster J:

- Start number 13 was manually annotated 2 times for cluster J.
- Start number 16 was manually annotated 23 times for cluster J.

Gene Information:

Gene: 40AC_82 Start: 48479, Stop: 48276, Start Num: 12

Candidate Starts for 40AC_82:

(Start: 12 @48479 has 35 MA's), (22, 48428), (27, 48344),

Gene: ANI8_85 Start: 47253, Stop: 47056, Start Num: 12

Candidate Starts for ANI8_85:

(Start: 12 @47253 has 35 MA's), (22, 47199), (27, 47121),

Gene: Ariel_241 Start: 107734, Stop: 107546, Start Num: 16

Candidate Starts for Ariel_241:

(11, 107755), (Start: 16 @107734 has 40 MA's), (23, 107692), (25, 107653), (28, 107581), (31, 107557),

Gene: Artemis2UCLA_88 Start: 46537, Stop: 46328, Start Num: 12

Candidate Starts for Artemis2UCLA_88:

(Start: 12 @46537 has 35 MA's), (23, 46477),

Gene: Bachome_87 Start: 47191, Stop: 46985, Start Num: 12

Candidate Starts for Bachome_87:

(10, 47206), (Start: 12 @47191 has 35 MA's), (22, 47137), (24, 47113), (27, 47053), (31, 46996),

Gene: Baehexic_85 Start: 48457, Stop: 48251, Start Num: 12

Candidate Starts for Baehexic_85:

(5, 48655), (10, 48472), (Start: 12 @48457 has 35 MA's), (22, 48403), (27, 48319),

Gene: Bagrid_240 Start: 111821, Stop: 111645, Start Num: 16

Candidate Starts for Bagrid_240:

(11, 111842), (Start: 16 @111821 has 40 MA's), (23, 111779), (25, 111752),

Gene: Beem_238 Start: 110940, Stop: 110764, Start Num: 16
Candidate Starts for Beem_238:
(11, 110961), (Start: 16 @110940 has 40 MA's), (23, 110898), (25, 110871),

Gene: BlessJoy_89 Start: 47058, Stop: 46849, Start Num: 12
Candidate Starts for BlessJoy_89:
(Start: 12 @47058 has 35 MA's), (23, 46998), (26, 46923),

Gene: BronnyJames_226 Start: 105609, Stop: 105433, Start Num: 16
Candidate Starts for BronnyJames_226:
(11, 105630), (Start: 16 @105609 has 40 MA's), (23, 105567), (25, 105540),

Gene: C3_78 Start: 47253, Stop: 47056, Start Num: 12
Candidate Starts for C3_78:
(Start: 12 @47253 has 35 MA's), (22, 47199), (27, 47121),

Gene: Caviar_75 Start: 44830, Stop: 44630, Start Num: 16
Candidate Starts for Caviar_75:
(6, 45019), (Start: 16 @44830 has 40 MA's), (24, 44770), (27, 44704), (28, 44671),

Gene: Centaur_86 Start: 48324, Stop: 48118, Start Num: 12
Candidate Starts for Centaur_86:
(5, 48522), (10, 48339), (Start: 12 @48324 has 35 MA's), (22, 48270), (27, 48186),

Gene: CloudWang3_89 Start: 47066, Stop: 46857, Start Num: 12
Candidate Starts for CloudWang3_89:
(Start: 12 @47066 has 35 MA's), (23, 47006),

Gene: Colin_85 Start: 49399, Stop: 49190, Start Num: 12
Candidate Starts for Colin_85:
(5, 49606), (7, 49546), (8, 49531), (10, 49414), (Start: 12 @49399 has 35 MA's), (18, 49375), (19, 49372), (27, 49258),

Gene: Courthouse_237 Start: 108498, Stop: 108310, Start Num: 16
Candidate Starts for Courthouse_237:
(11, 108519), (Start: 16 @108498 has 40 MA's), (23, 108456), (25, 108417), (28, 108345), (31, 108321),

Gene: DmpstrDiver_233 Start: 109198, Stop: 109022, Start Num: 16
Candidate Starts for DmpstrDiver_233:
(Start: 16 @109198 has 40 MA's), (20, 109174), (23, 109156), (25, 109129), (28, 109057), (29, 109042),

Gene: Dove_217 Start: 105704, Stop: 105528, Start Num: 16
Candidate Starts for Dove_217:
(11, 105725), (Start: 16 @105704 has 40 MA's), (23, 105662), (25, 105635),

Gene: DrFeelGood_85 Start: 49766, Stop: 49563, Start Num: 14
Candidate Starts for DrFeelGood_85:
(Start: 14 @49766 has 1 MA's), (26, 49631),

Gene: Drake55_87 Start: 48575, Stop: 48369, Start Num: 12
Candidate Starts for Drake55_87:

(5, 48773), (10, 48590), (Start: 12 @48575 has 35 MA's), (27, 48437),

Gene: EZMoney23_82 Start: 48034, Stop: 47822, Start Num: 12

Candidate Starts for EZMoney23_82:

(4, 48262), (7, 48181), (10, 48049), (Start: 12 @48034 has 35 MA's), (17, 48013), (21, 47983), (27, 47890),

Gene: Ejimix_226 Start: 109183, Stop: 109007, Start Num: 16

Candidate Starts for Ejimix_226:

(11, 109204), (Start: 16 @109183 has 40 MA's), (23, 109141), (25, 109114),

Gene: Equemioh13_86 Start: 48553, Stop: 48347, Start Num: 12

Candidate Starts for Equemioh13_86:

(5, 48751), (10, 48568), (Start: 12 @48553 has 35 MA's), (22, 48499), (27, 48415),

Gene: EricMillard_232 Start: 111027, Stop: 110851, Start Num: 16

Candidate Starts for EricMillard_232:

(11, 111048), (Start: 16 @111027 has 40 MA's), (23, 110985), (25, 110958),

Gene: Et2Brutus_89 Start: 48147, Stop: 47950, Start Num: 15

Candidate Starts for Et2Brutus_89:

(Start: 15 @48147 has 8 MA's), (27, 48018), (31, 47961),

Gene: EtoileNova_83 Start: 47837, Stop: 47637, Start Num: 16

Candidate Starts for EtoileNova_83:

(6, 48026), (Start: 16 @47837 has 40 MA's), (24, 47777), (27, 47711), (28, 47678),

Gene: Fibonacci_89 Start: 48153, Stop: 47956, Start Num: 15

Candidate Starts for Fibonacci_89:

(Start: 15 @48153 has 8 MA's), (27, 48024), (31, 47967),

Gene: Flare16_86 Start: 48368, Stop: 48162, Start Num: 12

Candidate Starts for Flare16_86:

(5, 48566), (10, 48383), (Start: 12 @48368 has 35 MA's), (22, 48314), (27, 48230),

Gene: Gail_88 Start: 48344, Stop: 48141, Start Num: 12

Candidate Starts for Gail_88:

(10, 48359), (Start: 12 @48344 has 35 MA's), (22, 48293), (27, 48209),

Gene: GaugeLDP_80 Start: 47824, Stop: 47624, Start Num: 12

Candidate Starts for GaugeLDP_80:

(Start: 12 @47824 has 35 MA's), (21, 47773), (27, 47692),

Gene: Gladiator_85 Start: 46722, Stop: 46513, Start Num: 12

Candidate Starts for Gladiator_85:

(Start: 12 @46722 has 35 MA's), (23, 46662),

Gene: Gratitude_84 Start: 48553, Stop: 48347, Start Num: 12

Candidate Starts for Gratitude_84:

(5, 48751), (10, 48568), (Start: 12 @48553 has 35 MA's), (22, 48499), (27, 48415),

Gene: Gruunaga_88 Start: 46677, Stop: 46468, Start Num: 12

Candidate Starts for Gruunaga_88:

(Start: 12 @46677 has 35 MA's), (23, 46617),

Gene: Hammer_89 Start: 46384, Stop: 46175, Start Num: 12

Candidate Starts for Hammer_89:

(Start: 12 @46384 has 35 MA's), (23, 46324), (26, 46249),

Gene: Hannaconda_225 Start: 109232, Stop: 109056, Start Num: 16

Candidate Starts for Hannaconda_225:

(11, 109253), (Start: 16 @109232 has 40 MA's), (23, 109190), (25, 109163),

Gene: HarryHoudini_86 Start: 48578, Stop: 48372, Start Num: 12

Candidate Starts for HarryHoudini_86:

(5, 48776), (10, 48593), (Start: 12 @48578 has 35 MA's), (27, 48440),

Gene: Hexamo_88 Start: 46552, Stop: 46343, Start Num: 12

Candidate Starts for Hexamo_88:

(Start: 12 @46552 has 35 MA's), (23, 46492),

Gene: HokkenD_227 Start: 110994, Stop: 110791, Start Num: 13

Candidate Starts for HokkenD_227:

(Start: 13 @110994 has 2 MA's), (Start: 16 @110979 has 40 MA's), (20, 110955), (23, 110937), (25, 110898), (26, 110862), (28, 110826), (31, 110802),

Gene: Hookmount_86 Start: 47833, Stop: 47633, Start Num: 16

Candidate Starts for Hookmount_86:

(6, 48022), (Start: 16 @47833 has 40 MA's), (24, 47773), (27, 47707), (28, 47674),

Gene: Hughesyang_237 Start: 110914, Stop: 110738, Start Num: 16

Candidate Starts for Hughesyang_237:

(11, 110935), (Start: 16 @110914 has 40 MA's), (23, 110872), (25, 110845),

Gene: Hutc2_86 Start: 47037, Stop: 46840, Start Num: 15

Candidate Starts for Hutc2_86:

(Start: 15 @47037 has 8 MA's), (27, 46908), (31, 46851),

Gene: Insomnia_89 Start: 48331, Stop: 48134, Start Num: 15

Candidate Starts for Insomnia_89:

(Start: 15 @48331 has 8 MA's), (27, 48202), (31, 48145),

Gene: Isca_83 Start: 47223, Stop: 47023, Start Num: 16

Candidate Starts for Isca_83:

(3, 47487), (Start: 16 @47223 has 40 MA's), (18, 47217), (24, 47163), (27, 47097), (28, 47064),

Gene: Jabith_89 Start: 48345, Stop: 48148, Start Num: 15

Candidate Starts for Jabith_89:

(1, 48675), (Start: 15 @48345 has 8 MA's), (27, 48216), (31, 48159),

Gene: Journey13_69 Start: 43468, Stop: 43256, Start Num: 12

Candidate Starts for Journey13_69:

(10, 43483), (Start: 12 @43468 has 35 MA's), (22, 43414), (24, 43390), (27, 43330), (28, 43297), (30, 43276),

Gene: JuicyJay_230 Start: 110889, Stop: 110713, Start Num: 16

Candidate Starts for JuicyJay_230:

(11, 110910), (Start: 16 @110889 has 40 MA's), (23, 110847), (25, 110820),

Gene: KashFlow_227 Start: 109125, Stop: 108949, Start Num: 16

Candidate Starts for KashFlow_227:

(11, 109146), (Start: 16 @109125 has 40 MA's), (23, 109083), (25, 109056), (27, 109017),

Gene: Klein_242 Start: 109911, Stop: 109735, Start Num: 16

Candidate Starts for Klein_242:

(11, 109932), (Start: 16 @109911 has 40 MA's), (23, 109869), (25, 109842),

Gene: Lambert1_86 Start: 47834, Stop: 47634, Start Num: 16

Candidate Starts for Lambert1_86:

(2, 48107), (6, 48023), (Start: 16 @47834 has 40 MA's), (24, 47774), (27, 47708), (28, 47675),

Gene: Larenn_85 Start: 48736, Stop: 48527, Start Num: 12

Candidate Starts for Larenn_85:

(10, 48751), (Start: 12 @48736 has 35 MA's), (22, 48682), (24, 48658), (27, 48598), (28, 48565),

Gene: Lilbunny_88 Start: 46631, Stop: 46422, Start Num: 12

Candidate Starts for Lilbunny_88:

(Start: 12 @46631 has 35 MA's), (23, 46571), (26, 46496),

Gene: Lucky2013_232 Start: 106413, Stop: 106237, Start Num: 16

Candidate Starts for Lucky2013_232:

(11, 106434), (Start: 16 @106413 has 40 MA's), (23, 106371), (25, 106344),

Gene: Malec_85 Start: 49144, Stop: 48938, Start Num: 12

Candidate Starts for Malec_85:

(5, 49342), (10, 49159), (Start: 12 @49144 has 35 MA's), (22, 49090), (24, 49066), (27, 49006),

Gene: Margo_86 Start: 47859, Stop: 47659, Start Num: 16

Candidate Starts for Margo_86:

(2, 48132), (6, 48048), (Start: 16 @47859 has 40 MA's), (24, 47799), (27, 47733), (28, 47700),

Gene: MiaZeal_245 Start: 108550, Stop: 108374, Start Num: 16

Candidate Starts for MiaZeal_245:

(11, 108571), (Start: 16 @108550 has 40 MA's), (23, 108508), (25, 108481),

Gene: MiculUcigas_86 Start: 48271, Stop: 48065, Start Num: 12

Candidate Starts for MiculUcigas_86:

(5, 48469), (10, 48286), (Start: 12 @48271 has 35 MA's), (22, 48217), (27, 48133),

Gene: MissWhite_79 Start: 45139, Stop: 44933, Start Num: 12

Candidate Starts for MissWhite_79:

(10, 45154), (Start: 12 @45139 has 35 MA's), (22, 45085), (24, 45061), (27, 45001),

Gene: Mulciber_88 Start: 48150, Stop: 47953, Start Num: 15

Candidate Starts for Mulciber_88:

(Start: 15 @48150 has 8 MA's), (27, 48021), (31, 47964),

Gene: NaSiaTalie_87 Start: 48558, Stop: 48352, Start Num: 12

Candidate Starts for NaSiaTalie_87:

(5, 48756), (10, 48573), (Start: 12 @48558 has 35 MA's), (22, 48504), (27, 48420),

Gene: Nekros_235 Start: 109893, Stop: 109717, Start Num: 16

Candidate Starts for Nekros_235:

(11, 109914), (Start: 16 @109893 has 40 MA's), (23, 109851), (25, 109824),

Gene: Nibley_225 Start: 105186, Stop: 105010, Start Num: 16

Candidate Starts for Nibley_225:

(11, 105207), (Start: 16 @105186 has 40 MA's), (23, 105144), (25, 105117),

Gene: NihilNomen_236 Start: 108748, Stop: 108545, Start Num: 13

Candidate Starts for NihilNomen_236:

(Start: 13 @108748 has 2 MA's), (Start: 16 @108733 has 40 MA's), (20, 108709), (23, 108691), (25, 108652), (28, 108580), (31, 108556),

Gene: Noella_87 Start: 47835, Stop: 47635, Start Num: 16

Candidate Starts for Noella_87:

(6, 48024), (Start: 16 @47835 has 40 MA's), (24, 47775), (27, 47709), (28, 47676),

Gene: Norbert_82 Start: 47832, Stop: 47632, Start Num: 16

Candidate Starts for Norbert_82:

(6, 48021), (Start: 16 @47832 has 40 MA's), (24, 47772), (27, 47706), (28, 47673),

Gene: Odette_234 Start: 110012, Stop: 109836, Start Num: 16

Candidate Starts for Odette_234:

(11, 110033), (Start: 16 @110012 has 40 MA's), (23, 109970), (25, 109943),

Gene: Panamaxus_82 Start: 47834, Stop: 47634, Start Num: 16

Candidate Starts for Panamaxus_82:

(6, 48023), (Start: 16 @47834 has 40 MA's), (24, 47774), (27, 47708), (28, 47675),

Gene: Phantastic_87 Start: 47341, Stop: 47150, Start Num: 16

Candidate Starts for Phantastic_87:

(3, 47605), (Start: 16 @47341 has 40 MA's), (18, 47335), (24, 47281), (27, 47215),

Gene: Phlei_72 Start: 46175, Stop: 45936, Start Num: 9

Candidate Starts for Phlei_72:

(9, 46175), (26, 46019),

Gene: Phoebus_233 Start: 112122, Stop: 111946, Start Num: 16

Candidate Starts for Phoebus_233:

(11, 112143), (Start: 16 @112122 has 40 MA's), (23, 112080), (25, 112053),

Gene: Piro94_85 Start: 48506, Stop: 48300, Start Num: 12

Candidate Starts for Piro94_85:

(5, 48704), (10, 48521), (Start: 12 @48506 has 35 MA's), (27, 48368),

Gene: Pocahontas_85 Start: 47830, Stop: 47630, Start Num: 16

Candidate Starts for Pocahontas_85:

(6, 48019), (Start: 16 @47830 has 40 MA's), (24, 47770), (27, 47704), (28, 47671),

Gene: Popcicle_86 Start: 47830, Stop: 47630, Start Num: 16

Candidate Starts for Popcicle_86:

(6, 48019), (Start: 16 @47830 has 40 MA's), (24, 47770), (27, 47704), (28, 47671),

Gene: Porcelain_236 Start: 107360, Stop: 107184, Start Num: 16

Candidate Starts for Porcelain_236:

(11, 107381), (Start: 16 @107360 has 40 MA's), (23, 107318), (25, 107291),

Gene: QuinnKiro_85 Start: 47833, Stop: 47633, Start Num: 16

Candidate Starts for QuinnKiro_85:

(2, 48106), (6, 48022), (Start: 16 @47833 has 40 MA's), (24, 47773), (27, 47707), (28, 47674),

Gene: Redno2_226 Start: 106231, Stop: 106055, Start Num: 16

Candidate Starts for Redno2_226:

(11, 106252), (Start: 16 @106231 has 40 MA's), (23, 106189), (25, 106162),

Gene: ResDef_84 Start: 47836, Stop: 47636, Start Num: 16

Candidate Starts for ResDef_84:

(6, 48025), (Start: 16 @47836 has 40 MA's), (24, 47776), (27, 47710), (28, 47677),

Gene: Rifter_89 Start: 46179, Stop: 45970, Start Num: 12

Candidate Starts for Rifter_89:

(Start: 12 @46179 has 35 MA's), (23, 46119),

Gene: Rockstar_75 Start: 45031, Stop: 44831, Start Num: 16

Candidate Starts for Rockstar_75:

(3, 45295), (Start: 16 @45031 has 40 MA's), (18, 45025), (24, 44971), (27, 44905),

Gene: Roksolana_89 Start: 46895, Stop: 46686, Start Num: 12

Candidate Starts for Roksolana_89:

(Start: 12 @46895 has 35 MA's), (23, 46835),

Gene: Salz_85 Start: 46959, Stop: 46762, Start Num: 15

Candidate Starts for Salz_85:

(Start: 15 @46959 has 8 MA's), (27, 46830), (31, 46773),

Gene: Saskia_86 Start: 47205, Stop: 46999, Start Num: 12

Candidate Starts for Saskia_86:

(10, 47220), (Start: 12 @47205 has 35 MA's), (22, 47151), (24, 47127), (27, 47067), (31, 47010),

Gene: Schatzie_227 Start: 109153, Stop: 108977, Start Num: 16

Candidate Starts for Schatzie_227:

(11, 109174), (Start: 16 @109153 has 40 MA's), (23, 109111), (25, 109084),

Gene: Shaboozey_232 Start: 106458, Stop: 106282, Start Num: 16

Candidate Starts for Shaboozey_232:

(11, 106479), (Start: 16 @106458 has 40 MA's), (23, 106416), (25, 106389),

Gene: Sham4_86 Start: 47045, Stop: 46848, Start Num: 15

Candidate Starts for Sham4_86:

(Start: 15 @47045 has 8 MA's), (27, 46916), (31, 46859),

Gene: Sknot_86 Start: 48365, Stop: 48159, Start Num: 12

Candidate Starts for Sknot_86:

(5, 48563), (10, 48380), (Start: 12 @48365 has 35 MA's), (22, 48311), (27, 48227),

Gene: SororFago_85 Start: 48106, Stop: 47903, Start Num: 12

Candidate Starts for SororFago_85:

(10, 48121), (Start: 12 @48106 has 35 MA's), (22, 48055),

Gene: Squint_233 Start: 108166, Stop: 107990, Start Num: 16

Candidate Starts for Squint_233:

(11, 108187), (Start: 16 @108166 has 40 MA's), (23, 108124), (25, 108097),

Gene: Superphikiman_233 Start: 107294, Stop: 107106, Start Num: 16

Candidate Starts for Superphikiman_233:

(11, 107315), (Start: 16 @107294 has 40 MA's), (23, 107252), (25, 107213), (28, 107141), (31, 107117),

Gene: Terrific_87 Start: 48339, Stop: 48133, Start Num: 12

Candidate Starts for Terrific_87:

(5, 48537), (10, 48354), (Start: 12 @48339 has 35 MA's), (22, 48285), (27, 48201),

Gene: Texage_84 Start: 47834, Stop: 47634, Start Num: 16

Candidate Starts for Texage_84:

(6, 48023), (Start: 16 @47834 has 40 MA's), (24, 47774), (27, 47708), (28, 47675),

Gene: Todacoro_86 Start: 47833, Stop: 47633, Start Num: 16

Candidate Starts for Todacoro_86:

(2, 48106), (6, 48022), (Start: 16 @47833 has 40 MA's), (24, 47773), (27, 47707), (28, 47674),

Gene: ToneTone_86 Start: 46559, Stop: 46350, Start Num: 12

Candidate Starts for ToneTone_86:

(Start: 12 @46559 has 35 MA's), (23, 46499), (26, 46424),

Gene: Tucker_89 Start: 46762, Stop: 46553, Start Num: 12

Candidate Starts for Tucker_89:

(Start: 12 @46762 has 35 MA's), (23, 46702), (26, 46627),

Gene: Updawg_87 Start: 48553, Stop: 48347, Start Num: 12

Candidate Starts for Updawg_87:

(5, 48751), (10, 48568), (Start: 12 @48553 has 35 MA's), (22, 48499), (27, 48415),

Gene: VC3_84 Start: 47253, Stop: 47056, Start Num: 12

Candidate Starts for VC3_84:

(Start: 12 @47253 has 35 MA's), (22, 47199), (27, 47121),

Gene: Veracruz_83 Start: 47834, Stop: 47634, Start Num: 16

Candidate Starts for Veracruz_83:

(2, 48107), (6, 48023), (Start: 16 @47834 has 40 MA's), (24, 47774), (27, 47708), (28, 47675),

Gene: Wanda_234 Start: 107541, Stop: 107365, Start Num: 16

Candidate Starts for Wanda_234:

(11, 107562), (Start: 16 @107541 has 40 MA's), (23, 107499), (25, 107472),

Gene: WideWale_87 Start: 48553, Stop: 48347, Start Num: 12

Candidate Starts for WideWale_87:

(5, 48751), (10, 48568), (Start: 12 @48553 has 35 MA's), (22, 48499), (27, 48415),

Gene: Wolpertinger_89 Start: 48164, Stop: 47967, Start Num: 15

Candidate Starts for Wolpertinger_89:

(Start: 15 @48164 has 8 MA's), (27, 48035), (31, 47978),

Gene: Yeet_229 Start: 109251, Stop: 109075, Start Num: 16

Candidate Starts for Yeet_229:

(11, 109272), (Start: 16 @109251 has 40 MA's), (23, 109209), (25, 109182),

Gene: Zelink_228 Start: 108839, Stop: 108663, Start Num: 16

Candidate Starts for Zelink_228:

(11, 108860), (Start: 16 @108839 has 40 MA's), (23, 108797), (25, 108770),