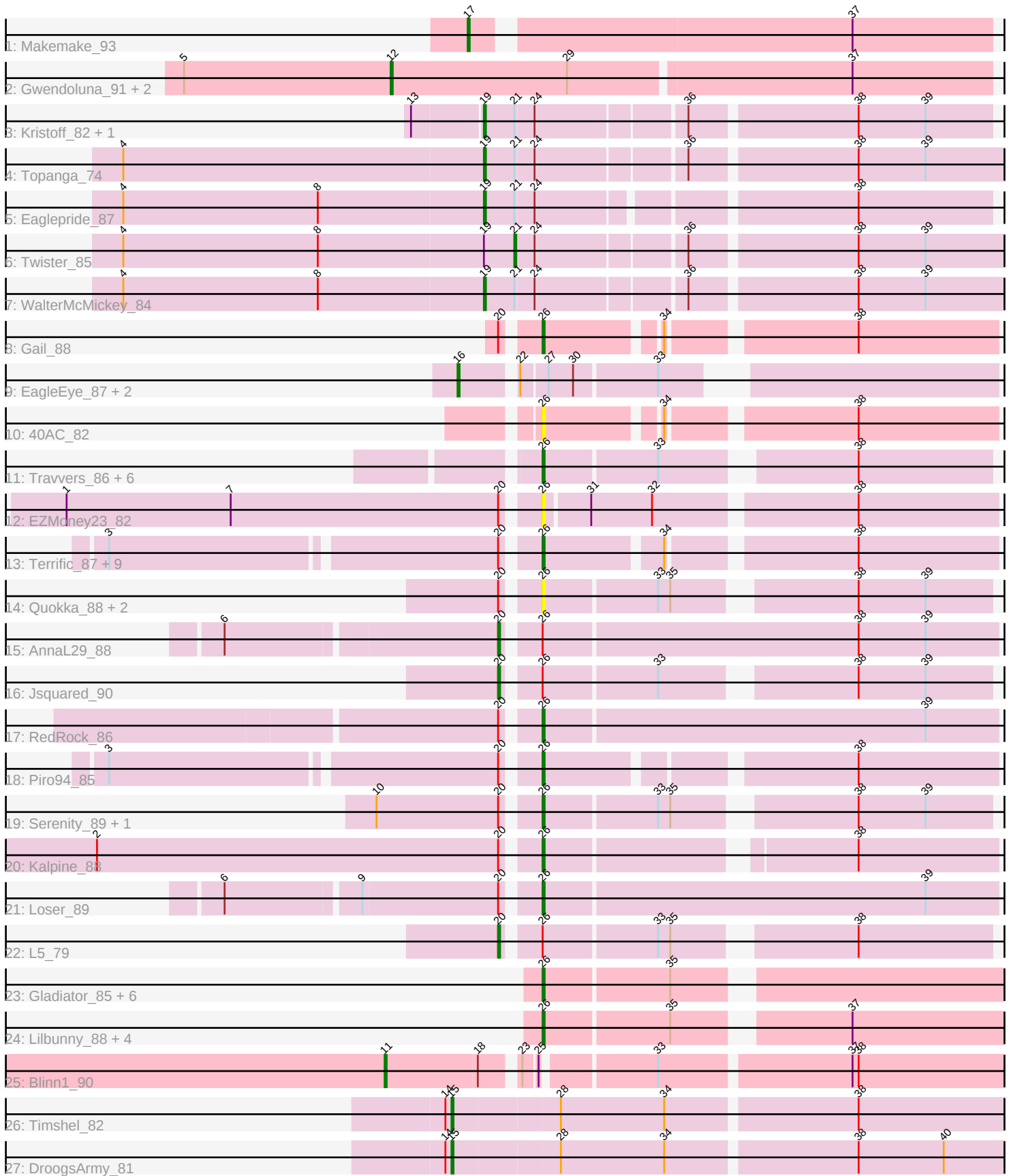


Pham 330878



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 330878 Report

This analysis was run 09/05/26 on database version 662.

Pham number 330878 has 60 members, 8 are drafts.

Phages represented in each track:

- Track 1 : Makemake_93
- Track 2 : Gwendoluna_91, Bircsak_90, Gompeii16_90
- Track 3 : Kristoff_82, Rebeuca_85
- Track 4 : Topanga_74
- Track 5 : Eaglepride_87
- Track 6 : Twister_85
- Track 7 : WalterMcMickey_84
- Track 8 : Gail_88
- Track 9 : EagleEye_87, Lucyedi_86, PainterBoy_85
- Track 10 : 40AC_82
- Track 11 : Travvers_86, StarStuff_86, Kerberos_86, Pomar16_86, Tomathan_86, Duplo_87, DBQu4n_86
- Track 12 : EZMoney23_82
- Track 13 : Terrific_87, Equemioh13_86, MiculUcigas_86, WideWale_87, Gratitude_84, NaSiaTalie_87, Flare16_86, Centaur_86, Updawg_87, Sknot_86
- Track 14 : Quokka_88, Bradman_89, MajorMajor_83
- Track 15 : AnnaL29_88
- Track 16 : Jsquared_90
- Track 17 : RedRock_86
- Track 18 : Piro94_85
- Track 19 : Serenity_89, TipsytheTRex_85
- Track 20 : Kalpine_88
- Track 21 : Loser_89
- Track 22 : L5_79
- Track 23 : Gladiator_85, CloudWang3_89, Artemis2UCLA_88, Hexamo_88, Rifter_89, Roksolana_89, Gruunaga_88
- Track 24 : Lilbunny_88, ToneTone_86, Hammer_89, BlessJoy_89, Tucker_89
- Track 25 : Blinn1_90
- Track 26 : Timshel_82
- Track 27 : DroogsArmy_81

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

The start number called the most often in the published annotations is 26, it was called in 33 of the 52 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- 40AC_82, Artemis2UCLA_88, BlessJoy_89, Bradman_89, Centaur_86, CloudWang3_89, DBQu4n_86, Duplo_87, EZMoney23_82, Equemioh13_86, Flare16_86, Gail_88, Gladiator_85, Gratitude_84, Gruunaga_88, Hammer_89, Hexamo_88, Kalpine_88, Kerberos_86, Lilbunny_88, Loser_89, MajorMajor_83, MiculUcigas_86, NaSiaTalie_87, Piro94_85, Pomar16_86, Quokka_88, RedRock_86, Rifter_89, Roksolana_89, Serenity_89, Sknot_86, StarStuff_86, Terrific_87, TopsytheTRex_85, Tomathan_86, ToneTone_86, Travvers_86, Tucker_89, Updawg_87, WideWale_87,

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

- AnnaL29_88, Jsquared_90, L5_79,

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

- Bircsak_90, Blinn1_90, DroogsArmy_81, EagleEye_87, Eaglepride_87, Gompeii16_90, Gwendoluna_91, Kristoff_82, Lucyedi_86, Makemake_93, PainterBoy_85, Rebeuca_85, Timshel_82, Topanga_74, Twister_85, WalterMcMickey_84,

Summary by start number:

Start 11:

- Found in 1 of 60 (1.7%) of genes in pham
- Manual Annotations of this start: 1 of 52
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Blinn1_90 (A6),

Start 12:

- Found in 3 of 60 (5.0%) of genes in pham
- Manual Annotations of this start: 3 of 52
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bircsak_90 (A1), Gompeii16_90 (A1), Gwendoluna_91 (A1),

Start 15:

- Found in 2 of 60 (3.3%) of genes in pham
- Manual Annotations of this start: 2 of 52
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DroogsArmy_81 (A7), Timshel_82 (A7),

Start 16:

- Found in 3 of 60 (5.0%) of genes in pham
- Manual Annotations of this start: 3 of 52
- Called 100.0% of time when present
- Phage (with cluster) where this start called: EagleEye_87 (A16), Lucyedi_86 (A16), PainterBoy_85 (A16),

Start 17:

- Found in 1 of 60 (1.7%) of genes in pham
- Manual Annotations of this start: 1 of 52

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Makemake_93 (A1),

Start 19:

- Found in 6 of 60 (10.0%) of genes in pham
- Manual Annotations of this start: 5 of 52
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Eaglepride_87 (A10), Kristoff_82 (A10), Rebeuca_85 (A10), Topanga_74 (A10), WalterMcMickey_84 (A10),

Start 20:

- Found in 24 of 60 (40.0%) of genes in pham
- Manual Annotations of this start: 3 of 52
- Called 12.5% of time when present
- Phage (with cluster) where this start called: AnnaL29_88 (A2), Jsquared_90 (A2), L5_79 (A2),

Start 21:

- Found in 6 of 60 (10.0%) of genes in pham
- Manual Annotations of this start: 1 of 52
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Twister_85 (A10),

Start 26:

- Found in 44 of 60 (73.3%) of genes in pham
- Manual Annotations of this start: 33 of 52
- Called 93.2% of time when present
- Phage (with cluster) where this start called: 40AC_82 (A17), Artemis2UCLA_88 (A6), BlessJoy_89 (A6), Bradman_89 (A2), Centaur_86 (A2), CloudWang3_89 (A6), DBQu4n_86 (A2), Duplo_87 (A2), EZMoney23_82 (A2), Equemioh13_86 (A2), Flare16_86 (A2), Gail_88 (A14), Gladiator_85 (A6), Gratitude_84 (A2), Gruunaga_88 (A6), Hammer_89 (A6), Hexamo_88 (A6), Kalpine_88 (A2), Kerberos_86 (A2), Lilbunny_88 (A6), Loser_89 (A2), MajorMajor_83 (A2), MiculUcigas_86 (A2), NaSiaTalie_87 (A2), Piro94_85 (A2), Pomar16_86 (A2), Quokka_88 (A2), RedRock_86 (A2), Rifter_89 (A6), Roksolana_89 (A6), Serenity_89 (A2), Sknot_86 (A2), StarStuff_86 (A2), Terrific_87 (A2), TipsytheTRex_85 (A2), Tomathan_86 (A2), ToneTone_86 (A6), Travvers_86 (A2), Tucker_89 (A6), Updawg_87 (A2), WideWale_87 (A2),

Summary by clusters:

There are 8 clusters represented in this pham: A14, A17, A16, A10, A1, A2, A7, A6,

Info for manual annotations of cluster A1:

- Start number 12 was manually annotated 3 times for cluster A1.
- Start number 17 was manually annotated 1 time for cluster A1.

Info for manual annotations of cluster A10:

- Start number 19 was manually annotated 5 times for cluster A10.
- Start number 21 was manually annotated 1 time for cluster A10.

Info for manual annotations of cluster A14:

- Start number 26 was manually annotated 1 time for cluster A14.

Info for manual annotations of cluster A16:

- Start number 16 was manually annotated 3 times for cluster A16.

Info for manual annotations of cluster A2:

- Start number 20 was manually annotated 3 times for cluster A2.
- Start number 26 was manually annotated 20 times for cluster A2.

Info for manual annotations of cluster A6:

- Start number 11 was manually annotated 1 time for cluster A6.
- Start number 26 was manually annotated 12 times for cluster A6.

Info for manual annotations of cluster A7:

- Start number 15 was manually annotated 2 times for cluster A7.

Gene Information:

Gene: 40AC_82 Start: 48479, Stop: 48276, Start Num: 26

Candidate Starts for 40AC_82:

(Start: 26 @48479 has 33 MA's), (34, 48428), (38, 48344),

Gene: AnnaL29_88 Start: 49242, Stop: 49006, Start Num: 20

Candidate Starts for AnnaL29_88:

(6, 49371), (Start: 20 @49242 has 3 MA's), (Start: 26 @49227 has 33 MA's), (38, 49074), (39, 49041),

Gene: Artemis2UCLA_88 Start: 46537, Stop: 46328, Start Num: 26

Candidate Starts for Artemis2UCLA_88:

(Start: 26 @46537 has 33 MA's), (35, 46477),

Gene: Bircsak_90 Start: 52909, Stop: 52619, Start Num: 12

Candidate Starts for Bircsak_90:

(5, 53011), (Start: 12 @52909 has 3 MA's), (29, 52822), (37, 52687),

Gene: BlessJoy_89 Start: 47058, Stop: 46849, Start Num: 26

Candidate Starts for BlessJoy_89:

(Start: 26 @47058 has 33 MA's), (35, 46998), (37, 46923),

Gene: Blinn1_90 Start: 47426, Stop: 47145, Start Num: 11

Candidate Starts for Blinn1_90:

(Start: 11 @47426 has 1 MA's), (18, 47381), (23, 47366), (25, 47360), (33, 47309), (37, 47219), (38, 47216),

Gene: Bradman_89 Start: 47929, Stop: 47726, Start Num: 26

Candidate Starts for Bradman_89:

(Start: 20 @47944 has 3 MA's), (Start: 26 @47929 has 33 MA's), (33, 47875), (35, 47869), (38, 47791), (39, 47758),

Gene: Centaur_86 Start: 48324, Stop: 48118, Start Num: 26

Candidate Starts for Centaur_86:

(3, 48522), (Start: 20 @48339 has 3 MA's), (Start: 26 @48324 has 33 MA's), (34, 48270), (38, 48186),

Gene: CloudWang3_89 Start: 47066, Stop: 46857, Start Num: 26

Candidate Starts for CloudWang3_89:

(Start: 26 @47066 has 33 MA's), (35, 47006),

Gene: DBQu4n_86 Start: 48304, Stop: 48101, Start Num: 26

Candidate Starts for DBQu4n_86:

(Start: 26 @48304 has 33 MA's), (33, 48250), (38, 48166),

Gene: DroogsArmy_81 Start: 51000, Stop: 50674, Start Num: 15

Candidate Starts for DroogsArmy_81:

(14, 51003), (Start: 15 @51000 has 2 MA's), (28, 50949), (34, 50898), (38, 50808), (40, 50766),

Gene: Duplo_87 Start: 48361, Stop: 48158, Start Num: 26

Candidate Starts for Duplo_87:

(Start: 26 @48361 has 33 MA's), (33, 48307), (38, 48223),

Gene: EZMoney23_82 Start: 48034, Stop: 47822, Start Num: 26

Candidate Starts for EZMoney23_82:

(1, 48262), (7, 48181), (Start: 20 @48049 has 3 MA's), (Start: 26 @48034 has 33 MA's), (31, 48013), (32, 47983), (38, 47890),

Gene: EagleEye_87 Start: 48171, Stop: 47941, Start Num: 16

Candidate Starts for EagleEye_87:

(Start: 16 @48171 has 3 MA's), (22, 48147), (27, 48135), (30, 48123), (33, 48084),

Gene: Eaglepride_87 Start: 48695, Stop: 48462, Start Num: 19

Candidate Starts for Eaglepride_87:

(4, 48872), (8, 48776), (Start: 19 @48695 has 5 MA's), (Start: 21 @48680 has 1 MA's), (24, 48671), (38, 48527),

Gene: Equemioh13_86 Start: 48553, Stop: 48347, Start Num: 26

Candidate Starts for Equemioh13_86:

(3, 48751), (Start: 20 @48568 has 3 MA's), (Start: 26 @48553 has 33 MA's), (34, 48499), (38, 48415),

Gene: Flare16_86 Start: 48368, Stop: 48162, Start Num: 26

Candidate Starts for Flare16_86:

(3, 48566), (Start: 20 @48383 has 3 MA's), (Start: 26 @48368 has 33 MA's), (34, 48314), (38, 48230),

Gene: Gail_88 Start: 48344, Stop: 48141, Start Num: 26

Candidate Starts for Gail_88:

(Start: 20 @48359 has 3 MA's), (Start: 26 @48344 has 33 MA's), (34, 48293), (38, 48209),

Gene: Gladiator_85 Start: 46722, Stop: 46513, Start Num: 26

Candidate Starts for Gladiator_85:

(Start: 26 @46722 has 33 MA's), (35, 46662),

Gene: Gompeii16_90 Start: 52910, Stop: 52620, Start Num: 12

Candidate Starts for Gompeii16_90:

(5, 53012), (Start: 12 @52910 has 3 MA's), (29, 52823), (37, 52688),

Gene: Gratitude_84 Start: 48553, Stop: 48347, Start Num: 26

Candidate Starts for Gratitude_84:

(3, 48751), (Start: 20 @48568 has 3 MA's), (Start: 26 @48553 has 33 MA's), (34, 48499), (38, 48415),

Gene: Gruunaga_88 Start: 46677, Stop: 46468, Start Num: 26

Candidate Starts for Gruunaga_88:

(Start: 26 @46677 has 33 MA's), (35, 46617),

Gene: Gwendoluna_91 Start: 51399, Stop: 51109, Start Num: 12

Candidate Starts for Gwendoluna_91:

(5, 51501), (Start: 12 @51399 has 3 MA's), (29, 51312), (37, 51177),

Gene: Hammer_89 Start: 46384, Stop: 46175, Start Num: 26

Candidate Starts for Hammer_89:

(Start: 26 @46384 has 33 MA's), (35, 46324), (37, 46249),

Gene: Hexamo_88 Start: 46552, Stop: 46343, Start Num: 26

Candidate Starts for Hexamo_88:

(Start: 26 @46552 has 33 MA's), (35, 46492),

Gene: Jsquared_90 Start: 48187, Stop: 47969, Start Num: 20

Candidate Starts for Jsquared_90:

(Start: 20 @48187 has 3 MA's), (Start: 26 @48172 has 33 MA's), (33, 48118), (38, 48034), (39, 48001),

Gene: Kalpine_88 Start: 49294, Stop: 49088, Start Num: 26

Candidate Starts for Kalpine_88:

(2, 49507), (Start: 20 @49309 has 3 MA's), (Start: 26 @49294 has 33 MA's), (38, 49156),

Gene: Kerberos_86 Start: 48324, Stop: 48121, Start Num: 26

Candidate Starts for Kerberos_86:

(Start: 26 @48324 has 33 MA's), (33, 48270), (38, 48186),

Gene: Kristoff_82 Start: 49033, Stop: 48797, Start Num: 19

Candidate Starts for Kristoff_82:

(13, 49066), (Start: 19 @49033 has 5 MA's), (Start: 21 @49018 has 1 MA's), (24, 49009), (36, 48940), (38, 48862), (39, 48829),

Gene: L5_79 Start: 47417, Stop: 47199, Start Num: 20

Candidate Starts for L5_79:

(Start: 20 @47417 has 3 MA's), (Start: 26 @47402 has 33 MA's), (33, 47348), (35, 47342), (38, 47264),

Gene: Lilbunny_88 Start: 46631, Stop: 46422, Start Num: 26

Candidate Starts for Lilbunny_88:

(Start: 26 @46631 has 33 MA's), (35, 46571), (37, 46496),

Gene: Loser_89 Start: 49477, Stop: 49256, Start Num: 26

Candidate Starts for Loser_89:

(6, 49621), (9, 49558), (Start: 20 @49492 has 3 MA's), (Start: 26 @49477 has 33 MA's), (39, 49291),

Gene: Lucyedi_86 Start: 48370, Stop: 48140, Start Num: 16

Candidate Starts for Lucyedi_86:

(Start: 16 @48370 has 3 MA's), (22, 48346), (27, 48334), (30, 48322), (33, 48283),

Gene: MajorMajor_83 Start: 46221, Stop: 46018, Start Num: 26

Candidate Starts for MajorMajor_83:

(Start: 20 @46236 has 3 MA's), (Start: 26 @46221 has 33 MA's), (33, 46167), (35, 46161), (38, 46083), (39, 46050),

Gene: Makemake_93 Start: 52141, Stop: 51896, Start Num: 17
Candidate Starts for Makemake_93:
(Start: 17 @52141 has 1 MA's), (37, 51964),

Gene: MiculUcigas_86 Start: 48271, Stop: 48065, Start Num: 26
Candidate Starts for MiculUcigas_86:
(3, 48469), (Start: 20 @48286 has 3 MA's), (Start: 26 @48271 has 33 MA's), (34, 48217), (38, 48133),

Gene: NaSiaTalie_87 Start: 48558, Stop: 48352, Start Num: 26
Candidate Starts for NaSiaTalie_87:
(3, 48756), (Start: 20 @48573 has 3 MA's), (Start: 26 @48558 has 33 MA's), (34, 48504), (38, 48420),

Gene: PainterBoy_85 Start: 48081, Stop: 47851, Start Num: 16
Candidate Starts for PainterBoy_85:
(Start: 16 @48081 has 3 MA's), (22, 48057), (27, 48045), (30, 48033), (33, 47994),

Gene: Piro94_85 Start: 48506, Stop: 48300, Start Num: 26
Candidate Starts for Piro94_85:
(3, 48704), (Start: 20 @48521 has 3 MA's), (Start: 26 @48506 has 33 MA's), (38, 48368),

Gene: Pomar16_86 Start: 48397, Stop: 48194, Start Num: 26
Candidate Starts for Pomar16_86:
(Start: 26 @48397 has 33 MA's), (33, 48343), (38, 48259),

Gene: Quokka_88 Start: 47930, Stop: 47727, Start Num: 26
Candidate Starts for Quokka_88:
(Start: 20 @47945 has 3 MA's), (Start: 26 @47930 has 33 MA's), (33, 47876), (35, 47870), (38, 47792), (39, 47759),

Gene: Rebeuca_85 Start: 49034, Stop: 48798, Start Num: 19
Candidate Starts for Rebeuca_85:
(13, 49067), (Start: 19 @49034 has 5 MA's), (Start: 21 @49019 has 1 MA's), (24, 49010), (36, 48941), (38, 48863), (39, 48830),

Gene: RedRock_86 Start: 49130, Stop: 48909, Start Num: 26
Candidate Starts for RedRock_86:
(Start: 20 @49145 has 3 MA's), (Start: 26 @49130 has 33 MA's), (39, 48944),

Gene: Rifter_89 Start: 46179, Stop: 45970, Start Num: 26
Candidate Starts for Rifter_89:
(Start: 26 @46179 has 33 MA's), (35, 46119),

Gene: Roksolana_89 Start: 46895, Stop: 46686, Start Num: 26
Candidate Starts for Roksolana_89:
(Start: 26 @46895 has 33 MA's), (35, 46835),

Gene: Serenity_89 Start: 47970, Stop: 47767, Start Num: 26
Candidate Starts for Serenity_89:
(10, 48045), (Start: 20 @47985 has 3 MA's), (Start: 26 @47970 has 33 MA's), (33, 47916), (35, 47910), (38, 47832), (39, 47799),

Gene: Sknot_86 Start: 48365, Stop: 48159, Start Num: 26

Candidate Starts for Sknot_86:

(3, 48563), (Start: 20 @48380 has 3 MA's), (Start: 26 @48365 has 33 MA's), (34, 48311), (38, 48227),

Gene: StarStuff_86 Start: 48359, Stop: 48156, Start Num: 26

Candidate Starts for StarStuff_86:

(Start: 26 @48359 has 33 MA's), (33, 48305), (38, 48221),

Gene: Terrific_87 Start: 48339, Stop: 48133, Start Num: 26

Candidate Starts for Terrific_87:

(3, 48537), (Start: 20 @48354 has 3 MA's), (Start: 26 @48339 has 33 MA's), (34, 48285), (38, 48201),

Gene: Timshel_82 Start: 50786, Stop: 50517, Start Num: 15

Candidate Starts for Timshel_82:

(14, 50789), (Start: 15 @50786 has 2 MA's), (28, 50735), (34, 50684), (38, 50594),

Gene: TipsytheTRex_85 Start: 47972, Stop: 47769, Start Num: 26

Candidate Starts for TipsytheTRex_85:

(10, 48047), (Start: 20 @47987 has 3 MA's), (Start: 26 @47972 has 33 MA's), (33, 47918), (35, 47912), (38, 47834), (39, 47801),

Gene: Tomathan_86 Start: 48437, Stop: 48234, Start Num: 26

Candidate Starts for Tomathan_86:

(Start: 26 @48437 has 33 MA's), (33, 48383), (38, 48299),

Gene: ToneTone_86 Start: 46559, Stop: 46350, Start Num: 26

Candidate Starts for ToneTone_86:

(Start: 26 @46559 has 33 MA's), (35, 46499), (37, 46424),

Gene: Topanga_74 Start: 45508, Stop: 45263, Start Num: 19

Candidate Starts for Topanga_74:

(4, 45685), (Start: 19 @45508 has 5 MA's), (Start: 21 @45493 has 1 MA's), (24, 45484), (36, 45415), (38, 45337), (39, 45304),

Gene: Travvers_86 Start: 48354, Stop: 48151, Start Num: 26

Candidate Starts for Travvers_86:

(Start: 26 @48354 has 33 MA's), (33, 48300), (38, 48216),

Gene: Tucker_89 Start: 46762, Stop: 46553, Start Num: 26

Candidate Starts for Tucker_89:

(Start: 26 @46762 has 33 MA's), (35, 46702), (37, 46627),

Gene: Twister_85 Start: 48707, Stop: 48477, Start Num: 21

Candidate Starts for Twister_85:

(4, 48899), (8, 48803), (Start: 19 @48722 has 5 MA's), (Start: 21 @48707 has 1 MA's), (24, 48698), (36, 48629), (38, 48551), (39, 48518),

Gene: Updawg_87 Start: 48553, Stop: 48347, Start Num: 26

Candidate Starts for Updawg_87:

(3, 48751), (Start: 20 @48568 has 3 MA's), (Start: 26 @48553 has 33 MA's), (34, 48499), (38, 48415),

Gene: WalterMcMickey_84 Start: 48722, Stop: 48477, Start Num: 19

Candidate Starts for WalterMcMickey_84:

(4, 48899), (8, 48803), (Start: 19 @48722 has 5 MA's), (Start: 21 @48707 has 1 MA's), (24, 48698), (36, 48629), (38, 48551), (39, 48518),

Gene: WideWale_87 Start: 48553, Stop: 48347, Start Num: 26

Candidate Starts for WideWale_87:

(3, 48751), (Start: 20 @48568 has 3 MA's), (Start: 26 @48553 has 33 MA's), (34, 48499), (38, 48415),