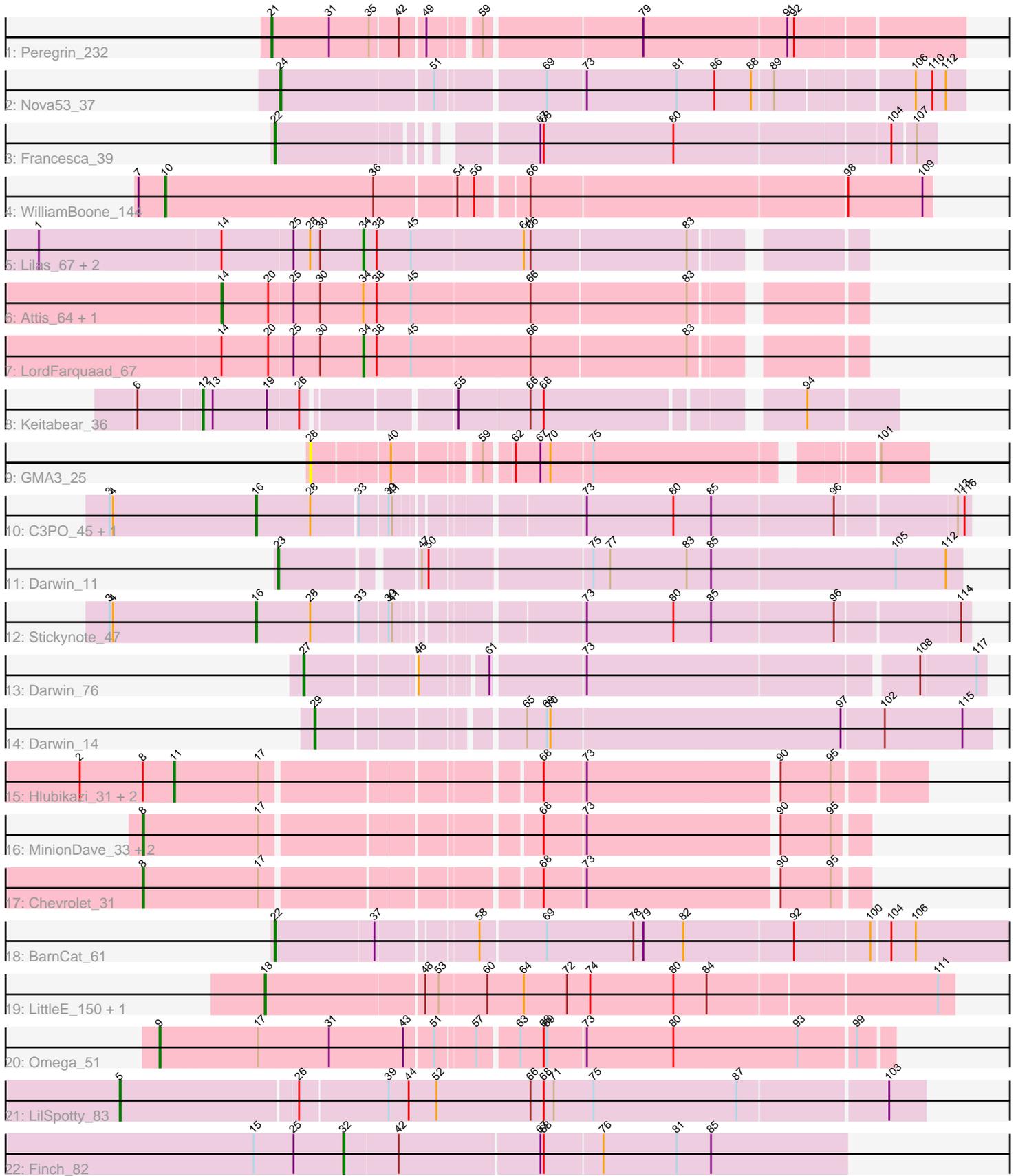


Pham 284051



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 284051 Report

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

Pham number 284051 has 31 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Peregrin_232
- Track 2 : Nova53_37
- Track 3 : Francesca_39
- Track 4 : WilliamBoone_144
- Track 5 : Lilas_67, Bradissa_67, EnalisNailo_66
- Track 6 : Attis_64, SoilAssassin_64
- Track 7 : LordFarquaad_67
- Track 8 : Keitabear_36
- Track 9 : GMA3_25
- Track 10 : C3PO_45, Cruella_45
- Track 11 : Darwin_11
- Track 12 : Stickynote_47
- Track 13 : Darwin_76
- Track 14 : Darwin_14
- Track 15 : Hlubikazi_31, Mandlovu_31, Strokeseat_31
- Track 16 : MinionDave_33, Ramsey_33, Galactic_32
- Track 17 : Chevrolet_31
- Track 18 : BarnCat_61
- Track 19 : LittleE_150, Omega_154
- Track 20 : Omega_51
- Track 21 : LilSpotty_83
- Track 22 : Finch_82

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

The start number called the most often in the published annotations is 34, it was called in 4 of the 30 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bradissa_67, EnalisNailo_66, Lilas_67, LordFarquaad_67,

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

- Attis_64, SoilAssassin_64,

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

- BarnCat_61, C3PO_45, Chevrolet_31, Cruella_45, Darwin_11, Darwin_14, Darwin_76, Finch_82, Francesca_39, GMA3_25, Galactic_32, Hlubikazi_31, Keitabear_36, LilSpotty_83, LittleE_150, Mandlovu_31, MinionDave_33, Nova53_37, Omega_154, Omega_51, Peregrin_232, Ramsey_33, Stickynote_47, Strokeseat_31, WilliamBoone_144,

Summary by start number:

Start 5:

- Found in 1 of 31 (3.2%) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LilSpotty_83 (singleton),

Start 8:

- Found in 7 of 31 (22.6%) of genes in pham
- Manual Annotations of this start: 4 of 30
- Called 57.1% of time when present
- Phage (with cluster) where this start called: Chevrolet_31 (F1), Galactic_32 (F1), MinionDave_33 (F1), Ramsey_33 (F1),

Start 9:

- Found in 1 of 31 (3.2%) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Omega_51 (J),

Start 10:

- Found in 1 of 31 (3.2%) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: WilliamBoone_144 (CQ1),

Start 11:

- Found in 3 of 31 (9.7%) of genes in pham
- Manual Annotations of this start: 3 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hlubikazi_31 (F1), Mandlovu_31 (F1), Strokeseat_31 (F1),

Start 12:

- Found in 1 of 31 (3.2%) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Keitabear_36 (DE1),

Start 14:

- Found in 6 of 31 (19.4%) of genes in pham
- Manual Annotations of this start: 2 of 30
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Attis_64 (CZ2), SoilAssassin_64 (CZ2),

Start 16:

- Found in 3 of 31 (9.7%) of genes in pham
- Manual Annotations of this start: 3 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: C3PO_45 (EN), Cruella_45 (EN), Stickynote_47 (EN),

Start 18:

- Found in 2 of 31 (6.5%) of genes in pham
- Manual Annotations of this start: 2 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: LittleE_150 (J), Omega_154 (J),

Start 21:

- Found in 1 of 31 (3.2%) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Peregrin_232 (CB),

Start 22:

- Found in 2 of 31 (6.5%) of genes in pham
- Manual Annotations of this start: 2 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BarnCat_61 (GB), Francesca_39 (CG),

Start 23:

- Found in 1 of 31 (3.2%) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Darwin_11 (EN),

Start 24:

- Found in 1 of 31 (3.2%) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Nova53_37 (CG),

Start 27:

- Found in 1 of 31 (3.2%) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Darwin_76 (EN),

Start 28:

- Found in 7 of 31 (22.6%) of genes in pham
- No Manual Annotations of this start.
- Called 14.3% of time when present
- Phage (with cluster) where this start called: GMA3_25 (DF2),

Start 29:

- Found in 1 of 31 (3.2%) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Darwin_14 (EN),

Start 32:

- Found in 1 of 31 (3.2%) of genes in pham
- Manual Annotations of this start: 1 of 30
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Finch_82 (singleton),

Start 34:

- Found in 6 of 31 (19.4%) of genes in pham
- Manual Annotations of this start: 4 of 30
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Bradissa_67 (CY1), EnalisNailo_66 (CY1), Lilas_67 (CY1), LordFarquaad_67 (CZ2),

Summary by clusters:

There are 12 clusters represented in this pham: F1, singleton, EN, CZ2, DE1, J, CG, CY1, DF2, GB, CB, CQ1,

Info for manual annotations of cluster CB:

- Start number 21 was manually annotated 1 time for cluster CB.

Info for manual annotations of cluster CG:

- Start number 22 was manually annotated 1 time for cluster CG.
- Start number 24 was manually annotated 1 time for cluster CG.

Info for manual annotations of cluster CQ1:

- Start number 10 was manually annotated 1 time for cluster CQ1.

Info for manual annotations of cluster CY1:

- Start number 34 was manually annotated 3 times for cluster CY1.

Info for manual annotations of cluster CZ2:

- Start number 14 was manually annotated 2 times for cluster CZ2.
- Start number 34 was manually annotated 1 time for cluster CZ2.

Info for manual annotations of cluster DE1:

- Start number 12 was manually annotated 1 time for cluster DE1.

Info for manual annotations of cluster EN:

- Start number 16 was manually annotated 3 times for cluster EN.
- Start number 23 was manually annotated 1 time for cluster EN.
- Start number 27 was manually annotated 1 time for cluster EN.
- Start number 29 was manually annotated 1 time for cluster EN.

Info for manual annotations of cluster F1:

- Start number 8 was manually annotated 4 times for cluster F1.
- Start number 11 was manually annotated 3 times for cluster F1.

Info for manual annotations of cluster GB:

- Start number 22 was manually annotated 1 time for cluster GB.

Info for manual annotations of cluster J:

- Start number 9 was manually annotated 1 time for cluster J.
- Start number 18 was manually annotated 2 times for cluster J.

Gene Information:

Gene: Attis_64 Start: 43105, Stop: 43650, Start Num: 14

Candidate Starts for Attis_64:

(Start: 14 @43105 has 2 MA's), (20, 43147), (25, 43168), (30, 43192), (Start: 34 @43231 has 4 MA's), (38, 43243), (45, 43273), (66, 43378), (83, 43516),

Gene: BarnCat_61 Start: 35513, Stop: 34857, Start Num: 22

Candidate Starts for BarnCat_61:

(Start: 22 @35513 has 2 MA's), (37, 35426), (58, 35345), (69, 35288), (78, 35210), (79, 35201), (82, 35165), (92, 35069), (100, 35006), (104, 34991), (106, 34970),

Gene: Bradissa_67 Start: 46915, Stop: 47334, Start Num: 34

Candidate Starts for Bradissa_67:

(1, 46627), (Start: 14 @46789 has 2 MA's), (25, 46852), (28, 46867), (30, 46876), (Start: 34 @46915 has 4 MA's), (38, 46927), (45, 46957), (64, 47056), (66, 47062), (83, 47200),

Gene: C3PO_45 Start: 42754, Stop: 42164, Start Num: 16

Candidate Starts for C3PO_45:

(3, 42886), (4, 42883), (Start: 16 @42754 has 3 MA's), (28, 42706), (33, 42667), (39, 42643), (41, 42640), (73, 42496), (80, 42418), (85, 42385), (96, 42277), (113, 42175), (116, 42169),

Gene: Chevrolet_31 Start: 27455, Stop: 28054, Start Num: 8

Candidate Starts for Chevrolet_31:

(Start: 8 @27455 has 4 MA's), (17, 27557), (68, 27779), (73, 27815), (90, 27980), (95, 28025),

Gene: Cruella_45 Start: 42754, Stop: 42164, Start Num: 16

Candidate Starts for Cruella_45:

(3, 42886), (4, 42883), (Start: 16 @42754 has 3 MA's), (28, 42706), (33, 42667), (39, 42643), (41, 42640), (73, 42496), (80, 42418), (85, 42385), (96, 42277), (113, 42175), (116, 42169),

Gene: Darwin_11 Start: 6015, Stop: 6593, Start Num: 23

Candidate Starts for Darwin_11:

(Start: 23 @6015 has 1 MA's), (47, 6126), (50, 6132), (75, 6267), (77, 6282), (83, 6351), (85, 6372), (105, 6534), (112, 6579),

Gene: Darwin_76 Start: 54919, Stop: 54362, Start Num: 27

Candidate Starts for Darwin_76:

(Start: 27 @54919 has 1 MA's), (46, 54829), (61, 54778), (73, 54700), (108, 54418), (117, 54370),

Gene: Darwin_14 Start: 7286, Stop: 7858, Start Num: 29

Candidate Starts for Darwin_14:

(Start: 29 @7286 has 1 MA's), (65, 7448), (69, 7466), (70, 7469), (97, 7727), (102, 7763), (115, 7832),

Gene: EnalisNailo_66 Start: 46449, Stop: 46868, Start Num: 34

Candidate Starts for EnalisNailo_66:

(1, 46161), (Start: 14 @46323 has 2 MA's), (25, 46386), (28, 46401), (30, 46410), (Start: 34 @46449 has 4 MA's), (38, 46461), (45, 46491), (64, 46590), (66, 46596), (83, 46734),

Gene: Finch_82 Start: 71334, Stop: 71777, Start Num: 32

Candidate Starts for Finch_82:

(15, 71253), (25, 71289), (Start: 32 @71334 has 1 MA's), (42, 71382), (67, 71505), (68, 71508), (76, 71559), (81, 71625), (85, 71655),

Gene: Francesca_39 Start: 21303, Stop: 21839, Start Num: 22

Candidate Starts for Francesca_39:

(Start: 22 @21303 has 2 MA's), (67, 21498), (68, 21501), (80, 21618), (104, 21804), (107, 21822),

Gene: GMA3_25 Start: 35593, Stop: 36075, Start Num: 28

Candidate Starts for GMA3_25:

(28, 35593), (40, 35656), (59, 35722), (62, 35743), (67, 35764), (70, 35773), (75, 35809), (101, 36034),

Gene: Galactic_32 Start: 27751, Stop: 28350, Start Num: 8

Candidate Starts for Galactic_32:

(Start: 8 @27751 has 4 MA's), (17, 27853), (68, 28075), (73, 28111), (90, 28276), (95, 28321),

Gene: Hlubikazi_31 Start: 27761, Stop: 28381, Start Num: 11

Candidate Starts for Hlubikazi_31:

(2, 27677), (Start: 8 @27734 has 4 MA's), (Start: 11 @27761 has 3 MA's), (17, 27836), (68, 28058), (73, 28094), (90, 28259), (95, 28304),

Gene: Keitabear_36 Start: 34510, Stop: 33947, Start Num: 12

Candidate Starts for Keitabear_36:

(6, 34564), (Start: 12 @34510 has 1 MA's), (13, 34501), (19, 34453), (26, 34426), (55, 34306), (66, 34243), (68, 34231), (94, 34024),

Gene: LilSpotty_83 Start: 48505, Stop: 49212, Start Num: 5

Candidate Starts for LilSpotty_83:

(Start: 5 @48505 has 1 MA's), (26, 48661), (39, 48739), (44, 48757), (52, 48781), (66, 48865), (68, 48877), (71, 48886), (75, 48922), (87, 49051), (103, 49180),

Gene: Lilas_67 Start: 47987, Stop: 48406, Start Num: 34

Candidate Starts for Lilas_67:

(1, 47699), (Start: 14 @47861 has 2 MA's), (25, 47924), (28, 47939), (30, 47948), (Start: 34 @47987 has 4 MA's), (38, 47999), (45, 48029), (64, 48128), (66, 48134), (83, 48272),

Gene: LittleE_150 Start: 78544, Stop: 79146, Start Num: 18

Candidate Starts for LittleE_150:

(Start: 18 @78544 has 2 MA's), (48, 78682), (53, 78694), (60, 78736), (64, 78769), (72, 78808), (74, 78829), (80, 78904), (84, 78934), (111, 79132),

Gene: LordFarquaad_67 Start: 43212, Stop: 43631, Start Num: 34

Candidate Starts for LordFarquaad_67:

(Start: 14 @43086 has 2 MA's), (20, 43128), (25, 43149), (30, 43173), (Start: 34 @43212 has 4 MA's), (38, 43224), (45, 43254), (66, 43359), (83, 43497),

Gene: Mandlovu_31 Start: 27703, Stop: 28323, Start Num: 11

Candidate Starts for Mandlovu_31:

(2, 27619), (Start: 8 @27676 has 4 MA's), (Start: 11 @27703 has 3 MA's), (17, 27778), (68, 28000), (73, 28036), (90, 28201), (95, 28246),

Gene: MinionDave_33 Start: 28083, Stop: 28682, Start Num: 8

Candidate Starts for MinionDave_33:

(Start: 8 @28083 has 4 MA's), (17, 28185), (68, 28407), (73, 28443), (90, 28608), (95, 28653),

Gene: Nova53_37 Start: 21310, Stop: 21888, Start Num: 24

Candidate Starts for Nova53_37:

(Start: 24 @21310 has 1 MA's), (51, 21442), (69, 21532), (73, 21565), (81, 21646), (86, 21679), (88, 21712), (89, 21730), (106, 21844), (110, 21859), (112, 21871),

Gene: Omega_154 Start: 79628, Stop: 80230, Start Num: 18

Candidate Starts for Omega_154:

(Start: 18 @79628 has 2 MA's), (48, 79766), (53, 79778), (60, 79820), (64, 79853), (72, 79892), (74, 79913), (80, 79988), (84, 80018), (111, 80216),

Gene: Omega_51 Start: 42659, Stop: 43288, Start Num: 9

Candidate Starts for Omega_51:

(Start: 9 @42659 has 1 MA's), (17, 42746), (31, 42809), (43, 42875), (51, 42899), (57, 42932), (63, 42965), (68, 42986), (69, 42989), (73, 43022), (80, 43100), (93, 43211), (99, 43259),

Gene: Peregrin_232 Start: 114891, Stop: 115472, Start Num: 21

Candidate Starts for Peregrin_232:

(Start: 21 @114891 has 1 MA's), (31, 114942), (35, 114978), (42, 115002), (49, 115023), (59, 115062), (79, 115197), (91, 115323), (92, 115329),

Gene: Ramsey_33 Start: 27746, Stop: 28345, Start Num: 8

Candidate Starts for Ramsey_33:

(Start: 8 @27746 has 4 MA's), (17, 27848), (68, 28070), (73, 28106), (90, 28271), (95, 28316),

Gene: SoilAssassin_64 Start: 43104, Stop: 43649, Start Num: 14

Candidate Starts for SoilAssassin_64:

(Start: 14 @43104 has 2 MA's), (20, 43146), (25, 43167), (30, 43191), (Start: 34 @43230 has 4 MA's), (38, 43242), (45, 43272), (66, 43377), (83, 43515),

Gene: Stickynote_47 Start: 43021, Stop: 42431, Start Num: 16

Candidate Starts for Stickynote_47:

(3, 43153), (4, 43150), (Start: 16 @43021 has 3 MA's), (28, 42973), (33, 42934), (39, 42910), (41, 42907), (73, 42763), (80, 42685), (85, 42652), (96, 42544), (114, 42439),

Gene: Strokeseat_31 Start: 27760, Stop: 28380, Start Num: 11

Candidate Starts for Strokeseat_31:

(2, 27676), (Start: 8 @27733 has 4 MA's), (Start: 11 @27760 has 3 MA's), (17, 27835), (68, 28057), (73, 28093), (90, 28258), (95, 28303),

Gene: WilliamBoone_144 Start: 75606, Stop: 76268, Start Num: 10

Candidate Starts for WilliamBoone_144:

(7, 75582), (Start: 10 @75606 has 1 MA's), (36, 75792), (54, 75861), (56, 75876), (66, 75918), (98, 76194), (109, 76260),