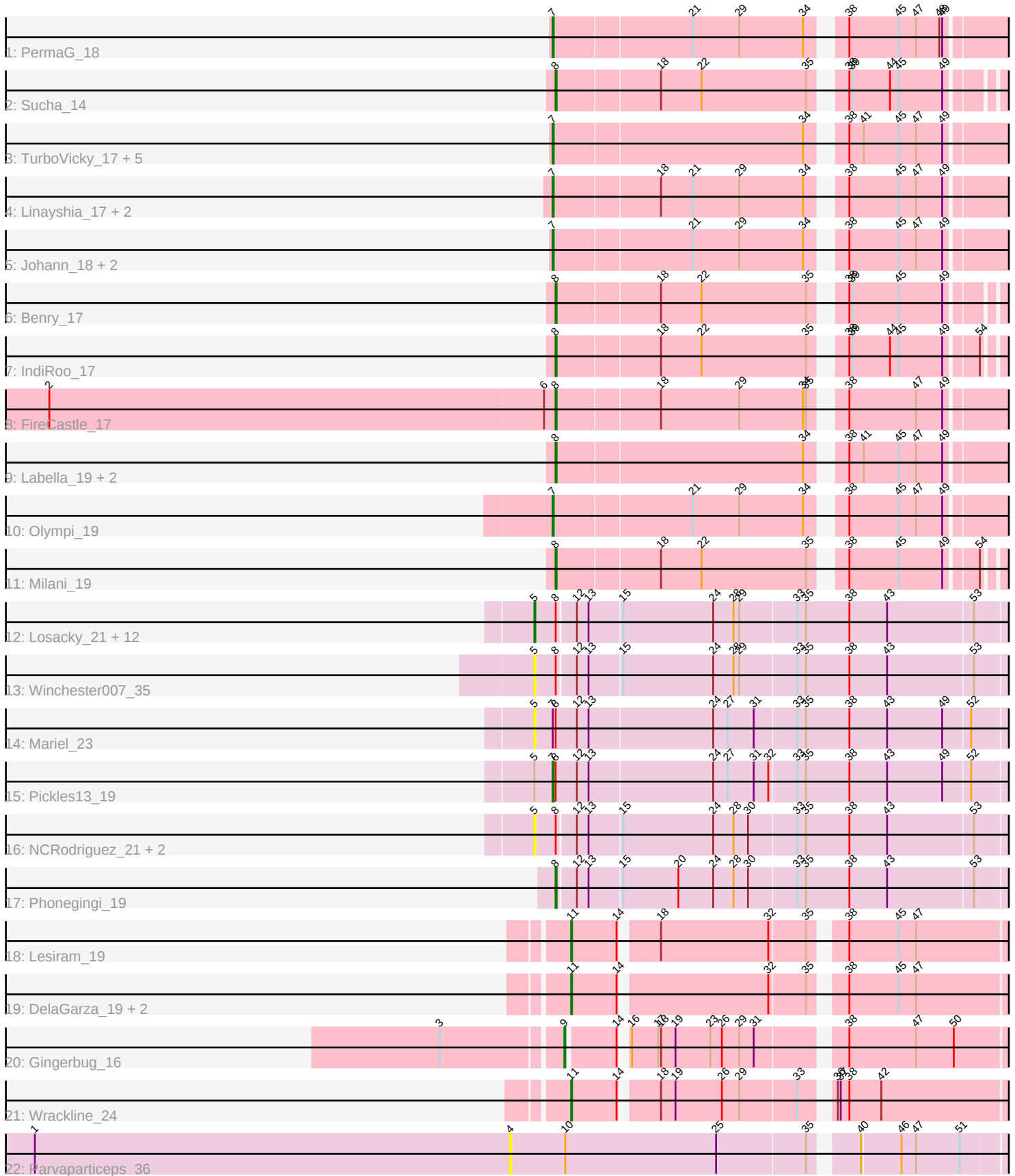


Pham 274439



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 274439 Report

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

Pham number 274439 has 49 members, 16 are drafts.

Phages represented in each track:

- Track 1 : PermaG_18
- Track 2 : Sucha_14
- Track 3 : TurboVicky_17, SBlackberry_17, Rootkit7_17, Jera_18, Alove_17, Zanella_17
- Track 4 : Linayshia_17, Htur_17, Rasovi_17
- Track 5 : Johann_18, Cicada_19, Goodman_18
- Track 6 : Benry_17
- Track 7 : IndiRoo_17
- Track 8 : FireCastle_17
- Track 9 : Labella_19, AyoTeo_19, Typher_19
- Track 10 : Olympi_19
- Track 11 : Milani_19
- Track 12 : Losacky_21, Antuna_20, Blett_20, Violeta_21, Carrillo_21, PhillyJawn_20, Dropshot_19, Bush_20, Warren_20, CookieDog_20, Appa_19, MenE_20, Guzman_21
- Track 13 : Winchester007_35
- Track 14 : Mariel_23
- Track 15 : Pickles13_19
- Track 16 : NCRodriguez_21, Jakelyne_22, Phingu_22
- Track 17 : Phonegingi_19
- Track 18 : Lesiram_19
- Track 19 : DelaGarza_19, Teng_20, Sweetums_19
- Track 20 : Gingerbug_16
- Track 21 : Wrackline_24
- Track 22 : Parvaparticeps_36

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

The start number called the most often in the published annotations is 7, it was called in 13 of the 33 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alove_17, Cicada_19, Goodman_18, Htur_17, Jera_18, Johann_18, Linayshia_17, Olympi_19, PermaG_18, Pickles13_19, Rasovi_17, Rootkit7_17, SBlackberry_17,

TurboVicky_17, Zanella_17,

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

- Mariel_23,

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

- Antuna_20, Appa_19, AyoTeo_19, Benry_17, Blett_20, Bush_20, Carrillo_21, CookieDog_20, DelaGarza_19, Dropshot_19, FireCastle_17, Gingerbug_16, Guzman_21, IndiRoo_17, Jakelyne_22, Labella_19, Lesiram_19, Losacky_21, MenE_20, Milani_19, NCRodriguez_21, Parvaparticeps_36, PhillyJawn_20, Phingu_22, Phonegingi_19, Sucha_14, Sweetums_19, Teng_20, Typher_19, Violeta_21, Warren_20, Winchester007_35, Wrackline_24,

Summary by start number:

Start 4:

- Found in 1 of 49 (2.0%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Parvaparticeps_36 (UNK),

Start 5:

- Found in 19 of 49 (38.8%) of genes in pham
- Manual Annotations of this start: 9 of 33
- Called 94.7% of time when present
- Phage (with cluster) where this start called: Antuna_20 (GA), Appa_19 (GA), Blett_20 (GA), Bush_20 (GA), Carrillo_21 (GA), CookieDog_20 (GA), Dropshot_19 (GA), Guzman_21 (GA), Jakelyne_22 (GA), Losacky_21 (GA), Mariel_23 (GA), MenE_20 (GA), NCRodriguez_21 (GA), PhillyJawn_20 (GA), Phingu_22 (GA), Violeta_21 (GA), Warren_20 (GA), Winchester007_35 (GA),

Start 7:

- Found in 16 of 49 (32.7%) of genes in pham
- Manual Annotations of this start: 13 of 33
- Called 93.8% of time when present
- Phage (with cluster) where this start called: Alove_17 (EJ), Cicada_19 (EJ), Goodman_18 (EJ), Htur_17 (EJ), Jera_18 (EJ), Johann_18 (EJ), Linayshia_17 (EJ), Olympi_19 (EJ), PermaG_18 (EJ), Pickles13_19 (GA), Rasovi_17 (EJ), Rootkit7_17 (EJ), SBlackberry_17 (EJ), TurboVicky_17 (EJ), Zanella_17 (EJ),

Start 8:

- Found in 28 of 49 (57.1%) of genes in pham
- Manual Annotations of this start: 7 of 33
- Called 32.1% of time when present
- Phage (with cluster) where this start called: AyoTeo_19 (EJ), Benry_17 (EJ), FireCastle_17 (EJ), IndiRoo_17 (EJ), Labella_19 (EJ), Milani_19 (EJ), Phonegingi_19 (GA), Sucha_14 (EJ), Typher_19 (EJ),

Start 9:

- Found in 1 of 49 (2.0%) of genes in pham
- Manual Annotations of this start: 1 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gingerbug_16 (GF),

Start 11:

- Found in 5 of 49 (10.2%) of genes in pham
- Manual Annotations of this start: 3 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DelaGarza_19 (GF), Lesiram_19 (GF), Sweetums_19 (GF), Teng_20 (GF), Wrackline_24 (GF),

Summary by clusters:

There are 4 clusters represented in this pham: GF, UNK, GA, EJ,

Info for manual annotations of cluster EJ:

- Start number 7 was manually annotated 12 times for cluster EJ.
- Start number 8 was manually annotated 6 times for cluster EJ.

Info for manual annotations of cluster GA:

- Start number 5 was manually annotated 9 times for cluster GA.
- Start number 7 was manually annotated 1 time for cluster GA.
- Start number 8 was manually annotated 1 time for cluster GA.

Info for manual annotations of cluster GF:

- Start number 9 was manually annotated 1 time for cluster GF.
- Start number 11 was manually annotated 3 times for cluster GF.

Gene Information:

Gene: Alove_17 Start: 12613, Stop: 13065, Start Num: 7

Candidate Starts for Alove_17:

(Start: 7 @12613 has 13 MA's), (34, 12865), (38, 12892), (41, 12907), (45, 12943), (47, 12961), (49, 12988),

Gene: Antuna_20 Start: 10705, Stop: 11193, Start Num: 5

Candidate Starts for Antuna_20:

(Start: 5 @10705 has 9 MA's), (Start: 8 @10726 has 7 MA's), (12, 10744), (13, 10756), (15, 10789), (24, 10882), (28, 10903), (29, 10909), (33, 10966), (35, 10975), (38, 11020), (43, 11059), (53, 11146),

Gene: Appa_19 Start: 10567, Stop: 11055, Start Num: 5

Candidate Starts for Appa_19:

(Start: 5 @10567 has 9 MA's), (Start: 8 @10588 has 7 MA's), (12, 10606), (13, 10618), (15, 10651), (24, 10744), (28, 10765), (29, 10771), (33, 10828), (35, 10837), (38, 10882), (43, 10921), (53, 11008),

Gene: AyoTeo_19 Start: 12743, Stop: 13192, Start Num: 8

Candidate Starts for AyoTeo_19:

(Start: 8 @12743 has 7 MA's), (34, 12992), (38, 13019), (41, 13034), (45, 13070), (47, 13088), (49, 13115),

Gene: Benry_17 Start: 10815, Stop: 11249, Start Num: 8

Candidate Starts for Benry_17:

(Start: 8 @10815 has 7 MA's), (18, 10917), (22, 10959), (35, 11067), (38, 11091), (39, 11094), (45, 11142), (49, 11187),

Gene: Blett_20 Start: 10720, Stop: 11208, Start Num: 5

Candidate Starts for Blett_20:

(Start: 5 @10720 has 9 MA's), (Start: 8 @10741 has 7 MA's), (12, 10759), (13, 10771), (15, 10804), (24, 10897), (28, 10918), (29, 10924), (33, 10981), (35, 10990), (38, 11035), (43, 11074), (53, 11161),

Gene: Bush_20 Start: 10701, Stop: 11189, Start Num: 5

Candidate Starts for Bush_20:

(Start: 5 @10701 has 9 MA's), (Start: 8 @10722 has 7 MA's), (12, 10740), (13, 10752), (15, 10785), (24, 10878), (28, 10899), (29, 10905), (33, 10962), (35, 10971), (38, 11016), (43, 11055), (53, 11142),

Gene: Carrillo_21 Start: 10674, Stop: 11162, Start Num: 5

Candidate Starts for Carrillo_21:

(Start: 5 @10674 has 9 MA's), (Start: 8 @10695 has 7 MA's), (12, 10713), (13, 10725), (15, 10758), (24, 10851), (28, 10872), (29, 10878), (33, 10935), (35, 10944), (38, 10989), (43, 11028), (53, 11115),

Gene: Cicada_19 Start: 12850, Stop: 13302, Start Num: 7

Candidate Starts for Cicada_19:

(Start: 7 @12850 has 13 MA's), (21, 12988), (29, 13036), (34, 13102), (38, 13129), (45, 13180), (47, 13198), (49, 13225),

Gene: CookieDog_20 Start: 10701, Stop: 11189, Start Num: 5

Candidate Starts for CookieDog_20:

(Start: 5 @10701 has 9 MA's), (Start: 8 @10722 has 7 MA's), (12, 10740), (13, 10752), (15, 10785), (24, 10878), (28, 10899), (29, 10905), (33, 10962), (35, 10971), (38, 11016), (43, 11055), (53, 11142),

Gene: DelaGarza_19 Start: 11318, Stop: 11797, Start Num: 11

Candidate Starts for DelaGarza_19:

(Start: 11 @11318 has 3 MA's), (14, 11363), (32, 11507), (35, 11543), (38, 11570), (45, 11621), (47, 11639),

Gene: Dropshot_19 Start: 10567, Stop: 11055, Start Num: 5

Candidate Starts for Dropshot_19:

(Start: 5 @10567 has 9 MA's), (Start: 8 @10588 has 7 MA's), (12, 10606), (13, 10618), (15, 10651), (24, 10744), (28, 10765), (29, 10771), (33, 10828), (35, 10837), (38, 10882), (43, 10921), (53, 11008),

Gene: FireCastle_17 Start: 12516, Stop: 12965, Start Num: 8

Candidate Starts for FireCastle_17:

(2, 11994), (6, 12504), (Start: 8 @12516 has 7 MA's), (18, 12618), (29, 12699), (34, 12765), (35, 12768), (38, 12792), (47, 12861), (49, 12888),

Gene: Gingerbug_16 Start: 10503, Stop: 10961, Start Num: 9

Candidate Starts for Gingerbug_16:

(3, 10386), (Start: 9 @10503 has 1 MA's), (14, 10548), (16, 10551), (17, 10578), (18, 10581), (19, 10596), (23, 10632), (26, 10644), (29, 10662), (31, 10677), (38, 10755), (47, 10824), (50, 10863),

Gene: Goodman_18 Start: 12763, Stop: 13215, Start Num: 7

Candidate Starts for Goodman_18:

(Start: 7 @12763 has 13 MA's), (21, 12901), (29, 12949), (34, 13015), (38, 13042), (45, 13093), (47, 13111), (49, 13138),

Gene: Guzman_21 Start: 10982, Stop: 11470, Start Num: 5

Candidate Starts for Guzman_21:

(Start: 5 @10982 has 9 MA's), (Start: 8 @11003 has 7 MA's), (12, 11021), (13, 11033), (15, 11066), (24, 11159), (28, 11180), (29, 11186), (33, 11243), (35, 11252), (38, 11297), (43, 11336), (53, 11423),

Gene: Htur_17 Start: 12781, Stop: 13233, Start Num: 7

Candidate Starts for Htur_17:

(Start: 7 @12781 has 13 MA's), (18, 12886), (21, 12919), (29, 12967), (34, 13033), (38, 13060), (45, 13111), (47, 13129), (49, 13156),

Gene: IndiRoo_17 Start: 10824, Stop: 11258, Start Num: 8

Candidate Starts for IndiRoo_17:

(Start: 8 @10824 has 7 MA's), (18, 10926), (22, 10968), (35, 11076), (38, 11100), (39, 11103), (44, 11142), (45, 11151), (49, 11196), (54, 11226),

Gene: Jakelyne_22 Start: 10723, Stop: 11208, Start Num: 5

Candidate Starts for Jakelyne_22:

(Start: 5 @10723 has 9 MA's), (Start: 8 @10744 has 7 MA's), (12, 10762), (13, 10774), (15, 10807), (24, 10900), (28, 10921), (30, 10936), (33, 10984), (35, 10993), (38, 11038), (43, 11077), (53, 11164),

Gene: Jera_18 Start: 11860, Stop: 12312, Start Num: 7

Candidate Starts for Jera_18:

(Start: 7 @11860 has 13 MA's), (34, 12112), (38, 12139), (41, 12154), (45, 12190), (47, 12208), (49, 12235),

Gene: Johann_18 Start: 12763, Stop: 13215, Start Num: 7

Candidate Starts for Johann_18:

(Start: 7 @12763 has 13 MA's), (21, 12901), (29, 12949), (34, 13015), (38, 13042), (45, 13093), (47, 13111), (49, 13138),

Gene: Labella_19 Start: 12746, Stop: 13195, Start Num: 8

Candidate Starts for Labella_19:

(Start: 8 @12746 has 7 MA's), (34, 12995), (38, 13022), (41, 13037), (45, 13073), (47, 13091), (49, 13118),

Gene: Lesiram_19 Start: 11288, Stop: 11767, Start Num: 11

Candidate Starts for Lesiram_19:

(Start: 11 @11288 has 3 MA's), (14, 11333), (18, 11366), (32, 11477), (35, 11513), (38, 11540), (45, 11591), (47, 11609),

Gene: Linayshia_17 Start: 12773, Stop: 13225, Start Num: 7

Candidate Starts for Linayshia_17:

(Start: 7 @12773 has 13 MA's), (18, 12878), (21, 12911), (29, 12959), (34, 13025), (38, 13052), (45, 13103), (47, 13121), (49, 13148),

Gene: Losacky_21 Start: 10847, Stop: 11335, Start Num: 5

Candidate Starts for Losacky_21:

(Start: 5 @10847 has 9 MA's), (Start: 8 @10868 has 7 MA's), (12, 10886), (13, 10898), (15, 10931), (24, 11024), (28, 11045), (29, 11051), (33, 11108), (35, 11117), (38, 11162), (43, 11201), (53, 11288),

Gene: Mariel_23 Start: 10878, Stop: 11369, Start Num: 5

Candidate Starts for Mariel_23:

(Start: 5 @10878 has 9 MA's), (Start: 7 @10896 has 13 MA's), (Start: 8 @10899 has 7 MA's), (12, 10920), (13, 10932), (24, 11058), (27, 11073), (31, 11100), (33, 11142), (35, 11151), (38, 11196), (43, 11235), (49, 11292), (52, 11319),

Gene: MenE_20 Start: 10835, Stop: 11323, Start Num: 5

Candidate Starts for MenE_20:

(Start: 5 @10835 has 9 MA's), (Start: 8 @10856 has 7 MA's), (12, 10874), (13, 10886), (15, 10919), (24, 11012), (28, 11033), (29, 11039), (33, 11096), (35, 11105), (38, 11150), (43, 11189), (53, 11276),

Gene: Milani_19 Start: 11474, Stop: 11908, Start Num: 8

Candidate Starts for Milani_19:

(Start: 8 @11474 has 7 MA's), (18, 11576), (22, 11618), (35, 11726), (38, 11750), (45, 11801), (49, 11846), (54, 11876),

Gene: NCRodriguez_21 Start: 10836, Stop: 11321, Start Num: 5

Candidate Starts for NCRodriguez_21:

(Start: 5 @10836 has 9 MA's), (Start: 8 @10857 has 7 MA's), (12, 10875), (13, 10887), (15, 10920), (24, 11013), (28, 11034), (30, 11049), (33, 11097), (35, 11106), (38, 11151), (43, 11190), (53, 11277),

Gene: Olympi_19 Start: 12753, Stop: 13205, Start Num: 7

Candidate Starts for Olympi_19:

(Start: 7 @12753 has 13 MA's), (21, 12891), (29, 12939), (34, 13005), (38, 13032), (45, 13083), (47, 13101), (49, 13128),

Gene: Parvaparticeps_36 Start: 27462, Stop: 26911, Start Num: 4

Candidate Starts for Parvaparticeps_36:

(1, 27954), (4, 27462), (10, 27405), (25, 27249), (35, 27159), (40, 27120), (46, 27081), (47, 27066), (51, 27021),

Gene: PermaG_18 Start: 12827, Stop: 13279, Start Num: 7

Candidate Starts for PermaG_18:

(Start: 7 @12827 has 13 MA's), (21, 12965), (29, 13013), (34, 13079), (38, 13106), (45, 13157), (47, 13175), (48, 13199), (49, 13202),

Gene: PhillyJawn_20 Start: 10567, Stop: 11055, Start Num: 5

Candidate Starts for PhillyJawn_20:

(Start: 5 @10567 has 9 MA's), (Start: 8 @10588 has 7 MA's), (12, 10606), (13, 10618), (15, 10651), (24, 10744), (28, 10765), (29, 10771), (33, 10828), (35, 10837), (38, 10882), (43, 10921), (53, 11008),

Gene: Phingu_22 Start: 10726, Stop: 11211, Start Num: 5

Candidate Starts for Phingu_22:

(Start: 5 @10726 has 9 MA's), (Start: 8 @10747 has 7 MA's), (12, 10765), (13, 10777), (15, 10810), (24, 10903), (28, 10924), (30, 10939), (33, 10987), (35, 10996), (38, 11041), (43, 11080), (53, 11167),

Gene: Phonegingi_19 Start: 10589, Stop: 11053, Start Num: 8

Candidate Starts for Phonegingi_19:

(Start: 8 @10589 has 7 MA's), (12, 10607), (13, 10619), (15, 10652), (20, 10709), (24, 10745), (28, 10766), (30, 10781), (33, 10829), (35, 10838), (38, 10883), (43, 10922), (53, 11009),

Gene: Pickles13_19 Start: 10749, Stop: 11222, Start Num: 7

Candidate Starts for Pickles13_19:

(Start: 5 @10731 has 9 MA's), (Start: 7 @10749 has 13 MA's), (Start: 8 @10752 has 7 MA's), (12, 10773), (13, 10785), (24, 10911), (27, 10926), (31, 10953), (32, 10968), (33, 10995), (35, 11004), (38,

11049), (43, 11088), (49, 11145), (52, 11172),

Gene: Rasovi_17 Start: 12781, Stop: 13233, Start Num: 7

Candidate Starts for Rasovi_17:

(Start: 7 @12781 has 13 MA's), (18, 12886), (21, 12919), (29, 12967), (34, 13033), (38, 13060), (45, 13111), (47, 13129), (49, 13156),

Gene: Rootkit7_17 Start: 12613, Stop: 13065, Start Num: 7

Candidate Starts for Rootkit7_17:

(Start: 7 @12613 has 13 MA's), (34, 12865), (38, 12892), (41, 12907), (45, 12943), (47, 12961), (49, 12988),

Gene: SBlackberry_17 Start: 12619, Stop: 13071, Start Num: 7

Candidate Starts for SBlackberry_17:

(Start: 7 @12619 has 13 MA's), (34, 12871), (38, 12898), (41, 12913), (45, 12949), (47, 12967), (49, 12994),

Gene: Sucha_14 Start: 9812, Stop: 10246, Start Num: 8

Candidate Starts for Sucha_14:

(Start: 8 @9812 has 7 MA's), (18, 9914), (22, 9956), (35, 10064), (38, 10088), (39, 10091), (44, 10130), (45, 10139), (49, 10184),

Gene: Sweetums_19 Start: 11392, Stop: 11871, Start Num: 11

Candidate Starts for Sweetums_19:

(Start: 11 @11392 has 3 MA's), (14, 11437), (32, 11581), (35, 11617), (38, 11644), (45, 11695), (47, 11713),

Gene: Teng_20 Start: 11315, Stop: 11794, Start Num: 11

Candidate Starts for Teng_20:

(Start: 11 @11315 has 3 MA's), (14, 11360), (32, 11504), (35, 11540), (38, 11567), (45, 11618), (47, 11636),

Gene: TurboVicky_17 Start: 12613, Stop: 13065, Start Num: 7

Candidate Starts for TurboVicky_17:

(Start: 7 @12613 has 13 MA's), (34, 12865), (38, 12892), (41, 12907), (45, 12943), (47, 12961), (49, 12988),

Gene: Typher_19 Start: 12746, Stop: 13195, Start Num: 8

Candidate Starts for Typher_19:

(Start: 8 @12746 has 7 MA's), (34, 12995), (38, 13022), (41, 13037), (45, 13073), (47, 13091), (49, 13118),

Gene: Violeta_21 Start: 10665, Stop: 11153, Start Num: 5

Candidate Starts for Violeta_21:

(Start: 5 @10665 has 9 MA's), (Start: 8 @10686 has 7 MA's), (12, 10704), (13, 10716), (15, 10749), (24, 10842), (28, 10863), (29, 10869), (33, 10926), (35, 10935), (38, 10980), (43, 11019), (53, 11106),

Gene: Warren_20 Start: 10765, Stop: 11253, Start Num: 5

Candidate Starts for Warren_20:

(Start: 5 @10765 has 9 MA's), (Start: 8 @10786 has 7 MA's), (12, 10804), (13, 10816), (15, 10849), (24, 10942), (28, 10963), (29, 10969), (33, 11026), (35, 11035), (38, 11080), (43, 11119), (53, 11206),

Gene: Winchester007_35 Start: 16685, Stop: 17173, Start Num: 5

Candidate Starts for Winchester007_35:

(Start: 5 @16685 has 9 MA's), (Start: 8 @16706 has 7 MA's), (12, 16724), (13, 16736), (15, 16769), (24, 16862), (28, 16883), (29, 16889), (33, 16946), (35, 16955), (38, 17000), (43, 17039), (53, 17126),

Gene: Wrackline_24 Start: 11988, Stop: 12446, Start Num: 11

Candidate Starts for Wrackline_24:

(Start: 11 @11988 has 3 MA's), (14, 12033), (18, 12066), (19, 12081), (26, 12129), (29, 12147), (33, 12204), (36, 12228), (37, 12231), (38, 12240), (42, 12273),

Gene: Zanella_17 Start: 12616, Stop: 13068, Start Num: 7

Candidate Starts for Zanella_17:

(Start: 7 @12616 has 13 MA's), (34, 12868), (38, 12895), (41, 12910), (45, 12946), (47, 12964), (49, 12991),