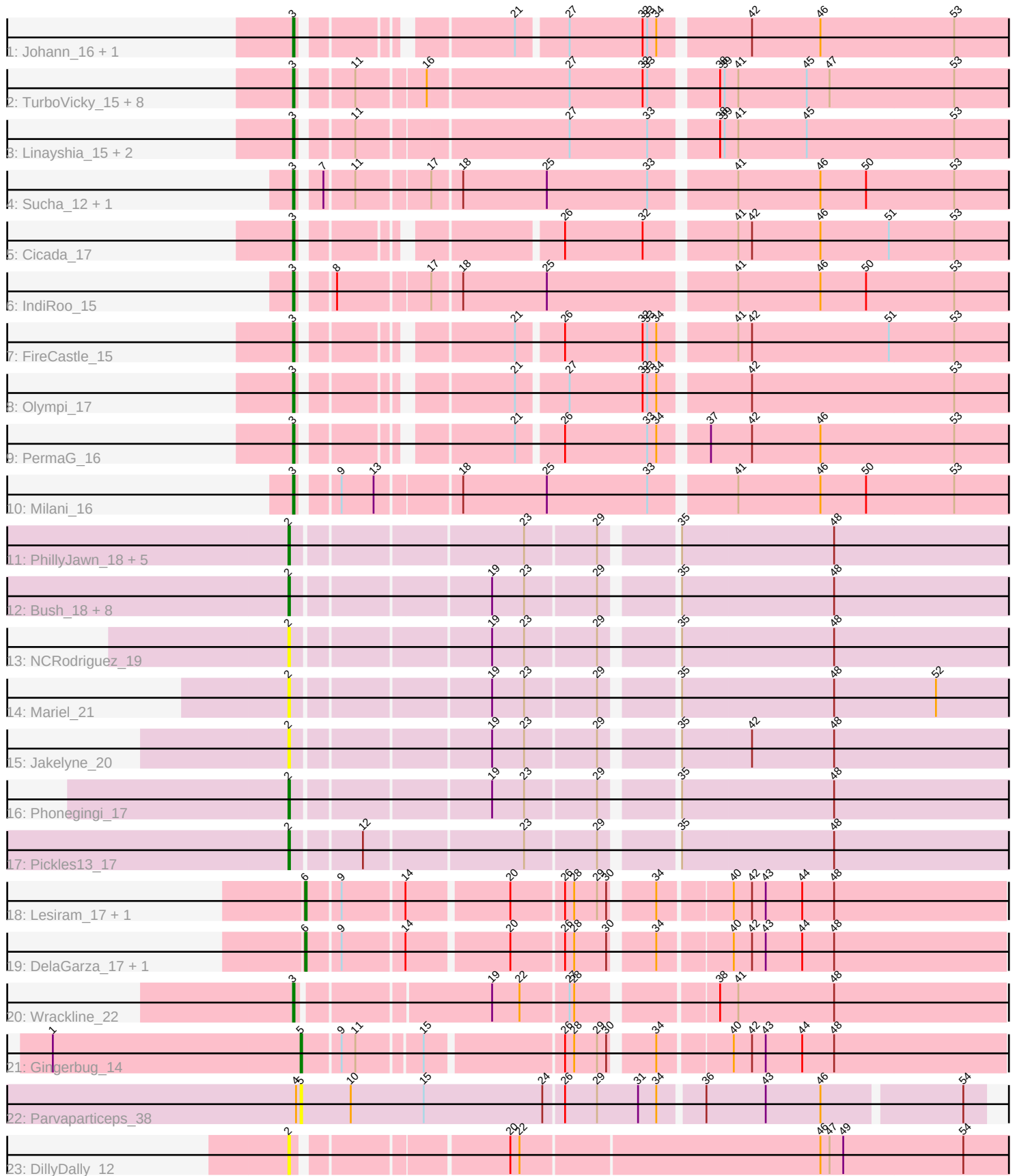


Pham 280537



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 280537 Report

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

Pham number 280537 has 50 members, 17 are drafts.

Phages represented in each track:

- Track 1 : Johann_16, Goodman_16
- Track 2 : TurboVicky_15, SBlackberry_15, Rootkit7_15, Jera_16, AyoTeo_17, Typher_17, Labella_17, Alove_15, Zanella_15
- Track 3 : Linayshia_15, Rasovi_15, Htur_15
- Track 4 : Sucha_12, Benry_15
- Track 5 : Cicada_17
- Track 6 : IndiRoo_15
- Track 7 : FireCastle_15
- Track 8 : Olympi_17
- Track 9 : PermaG_16
- Track 10 : Milani_16
- Track 11 : PhillyJawn_18, Warren_18, CookieDog_18, Winchester007_33, Losacky_19, Appa_17
- Track 12 : Bush_18, Phingu_20, Guzman_19, MenE_18, Dropshot_17, Antuna_18, Blett_18, Violeta_19, Carrillo_19
- Track 13 : NCRodriguez_19
- Track 14 : Mariel_21
- Track 15 : Jakelyne_20
- Track 16 : Phonegingi_17
- Track 17 : Pickles13_17
- Track 18 : Lesiram_17, Teng_18
- Track 19 : DelaGarza_17, Sweetums_17
- Track 20 : Wrackline_22
- Track 21 : Gingerbug_14
- Track 22 : Parvaparticeps_38
- Track 23 : DillyDally_12

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

The start number called the most often in the published annotations is 3, it was called in 19 of the 33 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alove_15, AyoTeo_17, Benry_15, Cicada_17, FireCastle_15, Goodman_16, Htur_15, IndiRoo_15, Jera_16, Johann_16, Labella_17, Linayshia_15, Milani_16, Olympi_17, PermaG_16, Rasovi_15, Rootkit7_15, SBlackberry_15, Sucha_12, TurboVicky_15, Typher_17, Wrackline_22, Zanella_15,

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

-

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

- Antuna_18, Appa_17, Blett_18, Bush_18, Carrillo_19, CookieDog_18, DelaGarza_17, DillyDally_12, Dropshot_17, Gingerbug_14, Guzman_19, Jakelyne_20, Lesiram_17, Losacky_19, Mariel_21, MenE_18, NCRodriguez_19, Parvarticeps_38, PhillyJawn_18, Phingu_20, Phonegingi_17, Pickles13_17, Sweetums_17, Teng_18, Violeta_19, Warren_18, Winchester007_33,

Summary by start number:

Start 2:

- Found in 21 of 50 (42.0%) of genes in pham
- Manual Annotations of this start: 11 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Antuna_18 (GA), Appa_17 (GA), Blett_18 (GA), Bush_18 (GA), Carrillo_19 (GA), CookieDog_18 (GA), DillyDally_12 (singleton), Dropshot_17 (GA), Guzman_19 (GA), Jakelyne_20 (GA), Losacky_19 (GA), Mariel_21 (GA), MenE_18 (GA), NCRodriguez_19 (GA), PhillyJawn_18 (GA), Phingu_20 (GA), Phonegingi_17 (GA), Pickles13_17 (GA), Violeta_19 (GA), Warren_18 (GA), Winchester007_33 (GA),

Start 3:

- Found in 23 of 50 (46.0%) of genes in pham
- Manual Annotations of this start: 19 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alove_15 (EJ), AyoTeo_17 (EJ), Benry_15 (EJ), Cicada_17 (EJ), FireCastle_15 (EJ), Goodman_16 (EJ), Htur_15 (EJ), IndiRoo_15 (EJ), Jera_16 (EJ), Johann_16 (EJ), Labella_17 (EJ), Linayshia_15 (EJ), Milani_16 (EJ), Olympi_17 (EJ), PermaG_16 (EJ), Rasovi_15 (EJ), Rootkit7_15 (EJ), SBlackberry_15 (EJ), Sucha_12 (EJ), TurboVicky_15 (EJ), Typher_17 (EJ), Wrackline_22 (GF), Zanella_15 (EJ),

Start 5:

- Found in 2 of 50 (4.0%) 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_14 (GF), Parvarticeps_38 (UNK),

Start 6:

- Found in 4 of 50 (8.0%) of genes in pham
- Manual Annotations of this start: 2 of 33
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DelaGarza_17 (GF), Lesiram_17 (GF), Sweetums_17 (GF), Teng_18 (GF),

Summary by clusters:

There are 5 clusters represented in this pham: GF, singleton, UNK, GA, EJ,

Info for manual annotations of cluster EJ:

- Start number 3 was manually annotated 18 times for cluster EJ.

Info for manual annotations of cluster GA:

- Start number 2 was manually annotated 11 times for cluster GA.

Info for manual annotations of cluster GF:

- Start number 3 was manually annotated 1 time for cluster GF.
- Start number 5 was manually annotated 1 time for cluster GF.
- Start number 6 was manually annotated 2 times for cluster GF.

Gene Information:

Gene: Alove_15 Start: 11577, Stop: 12017, Start Num: 3

Candidate Starts for Alove_15:

(Start: 3 @11577 has 19 MA's), (11, 11607), (16, 11649), (27, 11739), (32, 11787), (33, 11790), (38, 11829), (39, 11832), (41, 11841), (45, 11886), (47, 11901), (53, 11982),

Gene: Antuna_18 Start: 9659, Stop: 10102, Start Num: 2

Candidate Starts for Antuna_18:

(Start: 2 @9659 has 11 MA's), (19, 9779), (23, 9800), (29, 9845), (35, 9887), (48, 9986),

Gene: Appa_17 Start: 9521, Stop: 9964, Start Num: 2

Candidate Starts for Appa_17:

(Start: 2 @9521 has 11 MA's), (23, 9662), (29, 9707), (35, 9749), (48, 9848),

Gene: AyoTeo_17 Start: 11708, Stop: 12148, Start Num: 3

Candidate Starts for AyoTeo_17:

(Start: 3 @11708 has 19 MA's), (11, 11738), (16, 11780), (27, 11870), (32, 11918), (33, 11921), (38, 11960), (39, 11963), (41, 11972), (45, 12017), (47, 12032), (53, 12113),

Gene: Benry_15 Start: 9762, Stop: 10202, Start Num: 3

Candidate Starts for Benry_15:

(Start: 3 @9762 has 19 MA's), (7, 9774), (11, 9792), (17, 9837), (18, 9855), (25, 9909), (33, 9975), (41, 10026), (46, 10080), (50, 10110), (53, 10167),

Gene: Blett_18 Start: 9674, Stop: 10117, Start Num: 2

Candidate Starts for Blett_18:

(Start: 2 @9674 has 11 MA's), (19, 9794), (23, 9815), (29, 9860), (35, 9902), (48, 10001),

Gene: Bush_18 Start: 9655, Stop: 10098, Start Num: 2

Candidate Starts for Bush_18:

(Start: 2 @9655 has 11 MA's), (19, 9775), (23, 9796), (29, 9841), (35, 9883), (48, 9982),

Gene: Carrillo_19 Start: 9628, Stop: 10071, Start Num: 2

Candidate Starts for Carrillo_19:

(Start: 2 @9628 has 11 MA's), (19, 9748), (23, 9769), (29, 9814), (35, 9856), (48, 9955),

Gene: Cicada_17 Start: 11831, Stop: 12253, Start Num: 3

Candidate Starts for Cicada_17:

(Start: 3 @11831 has 19 MA's), (26, 11972), (32, 12023), (41, 12077), (42, 12086), (46, 12131), (51, 12176), (53, 12218),

Gene: CookieDog_18 Start: 9655, Stop: 10098, Start Num: 2

Candidate Starts for CookieDog_18:

(Start: 2 @9655 has 11 MA's), (23, 9796), (29, 9841), (35, 9883), (48, 9982),

Gene: DelaGarza_17 Start: 10313, Stop: 10741, Start Num: 6

Candidate Starts for DelaGarza_17:

(Start: 6 @10313 has 2 MA's), (9, 10334), (14, 10373), (20, 10436), (26, 10469), (28, 10475), (30, 10496), (34, 10520), (40, 10565), (42, 10577), (43, 10586), (44, 10610), (48, 10631),

Gene: DillyDally_12 Start: 8249, Stop: 8698, Start Num: 2

Candidate Starts for DillyDally_12:

(Start: 2 @8249 has 11 MA's), (20, 8375), (22, 8381), (46, 8573), (47, 8579), (49, 8588), (54, 8666),

Gene: Dropshot_17 Start: 9521, Stop: 9964, Start Num: 2

Candidate Starts for Dropshot_17:

(Start: 2 @9521 has 11 MA's), (19, 9641), (23, 9662), (29, 9707), (35, 9749), (48, 9848),

Gene: FireCastle_15 Start: 11492, Stop: 11914, Start Num: 3

Candidate Starts for FireCastle_15:

(Start: 3 @11492 has 19 MA's), (21, 11606), (26, 11633), (32, 11684), (33, 11687), (34, 11693), (41, 11738), (42, 11747), (51, 11837), (53, 11879),

Gene: Gingerbug_14 Start: 9495, Stop: 9923, Start Num: 5

Candidate Starts for Gingerbug_14:

(1, 9333), (Start: 5 @9495 has 1 MA's), (9, 9519), (11, 9528), (15, 9567), (26, 9651), (28, 9657), (29, 9672), (30, 9678), (34, 9702), (40, 9747), (42, 9759), (43, 9768), (44, 9792), (48, 9813),

Gene: Goodman_16 Start: 11743, Stop: 12165, Start Num: 3

Candidate Starts for Goodman_16:

(Start: 3 @11743 has 19 MA's), (21, 11857), (27, 11887), (32, 11935), (33, 11938), (34, 11944), (42, 11998), (46, 12043), (53, 12130),

Gene: Guzman_19 Start: 9936, Stop: 10379, Start Num: 2

Candidate Starts for Guzman_19:

(Start: 2 @9936 has 11 MA's), (19, 10056), (23, 10077), (29, 10122), (35, 10164), (48, 10263),

Gene: Htur_15 Start: 11746, Stop: 12186, Start Num: 3

Candidate Starts for Htur_15:

(Start: 3 @11746 has 19 MA's), (11, 11776), (27, 11908), (33, 11959), (38, 11998), (39, 12001), (41, 12010), (45, 12055), (53, 12151),

Gene: IndiRoo_15 Start: 9770, Stop: 10210, Start Num: 3

Candidate Starts for IndiRoo_15:

(Start: 3 @9770 has 19 MA's), (8, 9788), (17, 9845), (18, 9863), (25, 9917), (41, 10034), (46, 10088), (50, 10118), (53, 10175),

Gene: Jakelyne_20 Start: 9677, Stop: 10120, Start Num: 2
Candidate Starts for Jakelyne_20:
(Start: 2 @9677 has 11 MA's), (19, 9797), (23, 9818), (29, 9863), (35, 9905), (42, 9950), (48, 10004),

Gene: Jera_16 Start: 10824, Stop: 11264, Start Num: 3
Candidate Starts for Jera_16:
(Start: 3 @10824 has 19 MA's), (11, 10854), (16, 10896), (27, 10986), (32, 11034), (33, 11037), (38, 11076), (39, 11079), (41, 11088), (45, 11133), (47, 11148), (53, 11229),

Gene: Johann_16 Start: 11743, Stop: 12165, Start Num: 3
Candidate Starts for Johann_16:
(Start: 3 @11743 has 19 MA's), (21, 11857), (27, 11887), (32, 11935), (33, 11938), (34, 11944), (42, 11998), (46, 12043), (53, 12130),

Gene: Labella_17 Start: 11712, Stop: 12152, Start Num: 3
Candidate Starts for Labella_17:
(Start: 3 @11712 has 19 MA's), (11, 11742), (16, 11784), (27, 11874), (32, 11922), (33, 11925), (38, 11964), (39, 11967), (41, 11976), (45, 12021), (47, 12036), (53, 12117),

Gene: Lesiram_17 Start: 10289, Stop: 10717, Start Num: 6
Candidate Starts for Lesiram_17:
(Start: 6 @10289 has 2 MA's), (9, 10310), (14, 10349), (20, 10412), (26, 10445), (28, 10451), (29, 10466), (30, 10472), (34, 10496), (40, 10541), (42, 10553), (43, 10562), (44, 10586), (48, 10607),

Gene: Linayshia_15 Start: 11738, Stop: 12178, Start Num: 3
Candidate Starts for Linayshia_15:
(Start: 3 @11738 has 19 MA's), (11, 11768), (27, 11900), (33, 11951), (38, 11990), (39, 11993), (41, 12002), (45, 12047), (53, 12143),

Gene: Losacky_19 Start: 9801, Stop: 10244, Start Num: 2
Candidate Starts for Losacky_19:
(Start: 2 @9801 has 11 MA's), (23, 9942), (29, 9987), (35, 10029), (48, 10128),

Gene: Mariel_21 Start: 9832, Stop: 10275, Start Num: 2
Candidate Starts for Mariel_21:
(Start: 2 @9832 has 11 MA's), (19, 9952), (23, 9973), (29, 10018), (35, 10060), (48, 10159), (52, 10225),

Gene: MenE_18 Start: 9789, Stop: 10232, Start Num: 2
Candidate Starts for MenE_18:
(Start: 2 @9789 has 11 MA's), (19, 9909), (23, 9930), (29, 9975), (35, 10017), (48, 10116),

Gene: Milani_16 Start: 10421, Stop: 10861, Start Num: 3
Candidate Starts for Milani_16:
(Start: 3 @10421 has 19 MA's), (9, 10442), (13, 10463), (18, 10514), (25, 10568), (33, 10634), (41, 10685), (46, 10739), (50, 10769), (53, 10826),

Gene: NCRodriguez_19 Start: 9790, Stop: 10233, Start Num: 2
Candidate Starts for NCRodriguez_19:
(Start: 2 @9790 has 11 MA's), (19, 9910), (23, 9931), (29, 9976), (35, 10018), (48, 10117),

Gene: Olympi_17 Start: 11734, Stop: 12156, Start Num: 3
Candidate Starts for Olympi_17:

(Start: 3 @11734 has 19 MA's), (21, 11848), (27, 11878), (32, 11926), (33, 11929), (34, 11935), (42, 11989), (53, 12121),

Gene: Parvaparticeps_38 Start: 28458, Stop: 28024, Start Num: 5

Candidate Starts for Parvaparticeps_38:

(4, 28461), (Start: 5 @28458 has 1 MA's), (10, 28425), (15, 28377), (24, 28299), (26, 28287), (29, 28266), (31, 28239), (34, 28227), (36, 28200), (43, 28161), (46, 28125), (54, 28038),

Gene: PermaG_16 Start: 11806, Stop: 12228, Start Num: 3

Candidate Starts for PermaG_16:

(Start: 3 @11806 has 19 MA's), (21, 11920), (26, 11947), (33, 12001), (34, 12007), (37, 12034), (42, 12061), (46, 12106), (53, 12193),

Gene: PhillyJawn_18 Start: 9521, Stop: 9964, Start Num: 2

Candidate Starts for PhillyJawn_18:

(Start: 2 @9521 has 11 MA's), (23, 9662), (29, 9707), (35, 9749), (48, 9848),

Gene: Phingu_20 Start: 9680, Stop: 10123, Start Num: 2

Candidate Starts for Phingu_20:

(Start: 2 @9680 has 11 MA's), (19, 9800), (23, 9821), (29, 9866), (35, 9908), (48, 10007),

Gene: Phonegingi_17 Start: 9521, Stop: 9964, Start Num: 2

Candidate Starts for Phonegingi_17:

(Start: 2 @9521 has 11 MA's), (19, 9641), (23, 9662), (29, 9707), (35, 9749), (48, 9848),

Gene: Pickles13_17 Start: 9691, Stop: 10134, Start Num: 2

Candidate Starts for Pickles13_17:

(Start: 2 @9691 has 11 MA's), (12, 9733), (23, 9832), (29, 9877), (35, 9919), (48, 10018),

Gene: Rasovi_15 Start: 11746, Stop: 12186, Start Num: 3

Candidate Starts for Rasovi_15:

(Start: 3 @11746 has 19 MA's), (11, 11776), (27, 11908), (33, 11959), (38, 11998), (39, 12001), (41, 12010), (45, 12055), (53, 12151),

Gene: Rootkit7_15 Start: 11577, Stop: 12017, Start Num: 3

Candidate Starts for Rootkit7_15:

(Start: 3 @11577 has 19 MA's), (11, 11607), (16, 11649), (27, 11739), (32, 11787), (33, 11790), (38, 11829), (39, 11832), (41, 11841), (45, 11886), (47, 11901), (53, 11982),

Gene: SBlackberry_15 Start: 11583, Stop: 12023, Start Num: 3

Candidate Starts for SBlackberry_15:

(Start: 3 @11583 has 19 MA's), (11, 11613), (16, 11655), (27, 11745), (32, 11793), (33, 11796), (38, 11835), (39, 11838), (41, 11847), (45, 11892), (47, 11907), (53, 11988),

Gene: Sucha_12 Start: 8759, Stop: 9199, Start Num: 3

Candidate Starts for Sucha_12:

(Start: 3 @8759 has 19 MA's), (7, 8771), (11, 8789), (17, 8834), (18, 8852), (25, 8906), (33, 8972), (41, 9023), (46, 9077), (50, 9107), (53, 9164),

Gene: Sweetums_17 Start: 10387, Stop: 10815, Start Num: 6

Candidate Starts for Sweetums_17:

(Start: 6 @10387 has 2 MA's), (9, 10408), (14, 10447), (20, 10510), (26, 10543), (28, 10549), (30, 10570), (34, 10594), (40, 10639), (42, 10651), (43, 10660), (44, 10684), (48, 10705),

Gene: Teng_18 Start: 10310, Stop: 10738, Start Num: 6

Candidate Starts for Teng_18:

(Start: 6 @10310 has 2 MA's), (9, 10331), (14, 10370), (20, 10433), (26, 10466), (28, 10472), (29, 10487), (30, 10493), (34, 10517), (40, 10562), (42, 10574), (43, 10583), (44, 10607), (48, 10628),

Gene: TurboVicky_15 Start: 11577, Stop: 12017, Start Num: 3

Candidate Starts for TurboVicky_15:

(Start: 3 @11577 has 19 MA's), (11, 11607), (16, 11649), (27, 11739), (32, 11787), (33, 11790), (38, 11829), (39, 11832), (41, 11841), (45, 11886), (47, 11901), (53, 11982),

Gene: Typher_17 Start: 11711, Stop: 12151, Start Num: 3

Candidate Starts for Typher_17:

(Start: 3 @11711 has 19 MA's), (11, 11741), (16, 11783), (27, 11873), (32, 11921), (33, 11924), (38, 11963), (39, 11966), (41, 11975), (45, 12020), (47, 12035), (53, 12116),

Gene: Violeta_19 Start: 9619, Stop: 10062, Start Num: 2

Candidate Starts for Violeta_19:

(Start: 2 @9619 has 11 MA's), (19, 9739), (23, 9760), (29, 9805), (35, 9847), (48, 9946),

Gene: Warren_18 Start: 9718, Stop: 10161, Start Num: 2

Candidate Starts for Warren_18:

(Start: 2 @9718 has 11 MA's), (23, 9859), (29, 9904), (35, 9946), (48, 10045),

Gene: Winchester007_33 Start: 15638, Stop: 16081, Start Num: 2

Candidate Starts for Winchester007_33:

(Start: 2 @15638 has 11 MA's), (23, 15779), (29, 15824), (35, 15866), (48, 15965),

Gene: Wrackline_22 Start: 10963, Stop: 11397, Start Num: 3

Candidate Starts for Wrackline_22:

(Start: 3 @10963 has 19 MA's), (19, 11080), (22, 11098), (27, 11128), (28, 11131), (38, 11212), (41, 11224), (48, 11287),

Gene: Zanella_15 Start: 11580, Stop: 12020, Start Num: 3

Candidate Starts for Zanella_15:

(Start: 3 @11580 has 19 MA's), (11, 11610), (16, 11652), (27, 11742), (32, 11790), (33, 11793), (38, 11832), (39, 11835), (41, 11844), (45, 11889), (47, 11904), (53, 11985),