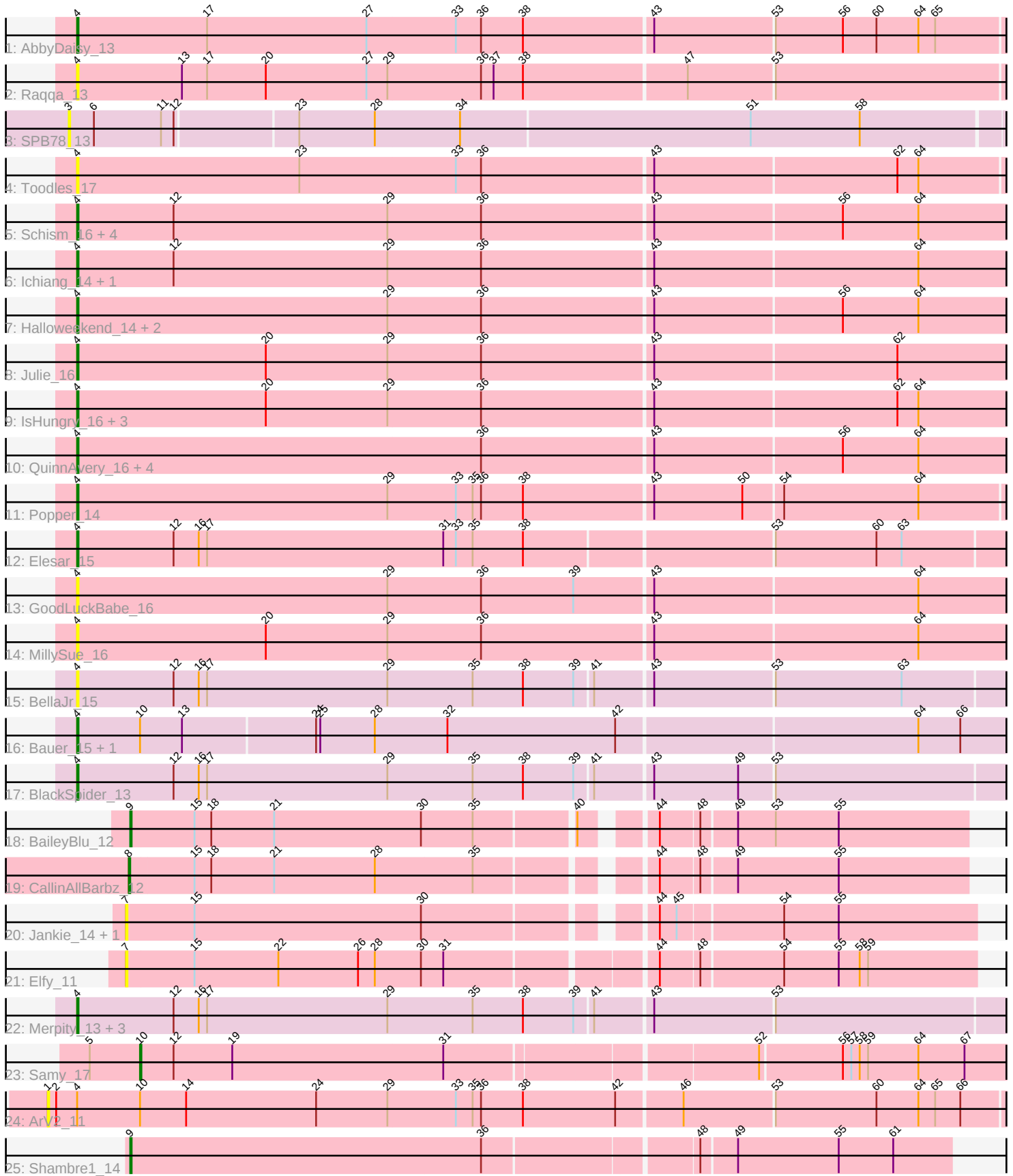


Pham 280576



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 280576 Report

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

WARNING: Pham size does not match number of genes in report. Either unphamerated genes have been added (by you) or starterator has removed genes due to invalid start codon.

Pham number 280576 has 44 members, 17 are drafts.

Phages represented in each track:

- Track 1 : AbbyDaisy_13
- Track 2 : Raqqa_13
- Track 3 : SPB78_13
- Track 4 : Toodles_17
- Track 5 : Schism_16, Lenoxika_16, Nandita_16, Guinevere_16, Donatella_15
- Track 6 : Ichiang_14, Zaheer_16
- Track 7 : Halloweekend_14, Ryan_16, Yonex_16
- Track 8 : Julie_16
- Track 9 : IsHungry_16, Gusanita_14, Dirdigger_16, AllBusiness_15
- Track 10 : QuinnAvery_16, Cole_14, BigSherm_15, Kihatsu_17, ToastyOats_18
- Track 11 : Popper_14
- Track 12 : Elesar_15
- Track 13 : GoodLuckBabe_16
- Track 14 : MillySue_16
- Track 15 : BellaJr_15
- Track 16 : Bauer_15, Zucker_14
- Track 17 : BlackSpider_13
- Track 18 : BaileyBlu_12
- Track 19 : CallinAllBarbz_12
- Track 20 : Jankie_14, GrimEater_13
- Track 21 : Elfy_11
- Track 22 : Merpity_13, Skitty_12, MrSmee_12, Cassini_13
- Track 23 : Samy_17
- Track 24 : ArV2_11
- Track 25 : Shambre1_14

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

The start number called the most often in the published annotations is 4, it was called in 23 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AbbyDaisy_13, AllBusiness_15, Bauer_15, BellaJr_15, BigSherm_15, BlackSpider_13, Cassini_13, Cole_14, Dirdigger_16, Donatella_15, Elesar_15, GoodLuckBabe_16, Guinevere_16, Gusanita_14, Halloweekend_14, Ichiang_14, IsHungry_16, Julie_16, Kihatsu_17, Lenoxika_16, Merpity_13, MillySue_16, MrSmee_12, Nandita_16, Popper_14, QuinnAvery_16, Raqqa_13, Ryan_16, Schism_16, Skitty_12, ToastyOats_18, Toodles_17, Yonex_16, Zaheer_16, Zucker_14,

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

- ArV2_11,

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

- BaileyBlu_12, CallinAllBarbz_12, Elfy_11, GrimEater_13, Jankie_14, SPB78_13, Samy_17, Shambre1_14,

Summary by start number:

Start 1:

- Found in 1 of 44 (2.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: ArV2_11 (singleton),

Start 3:

- Found in 1 of 44 (2.3%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: SPB78_13 (BA),

Start 4:

- Found in 36 of 44 (81.8%) of genes in pham
- Manual Annotations of this start: 23 of 27
- Called 97.2% of time when present
- Phage (with cluster) where this start called: AbbyDaisy_13 (AY), AllBusiness_15 (FF), Bauer_15 (FN), BellaJr_15 (FN), BigSherm_15 (FF), BlackSpider_13 (FN), Cassini_13 (FN), Cole_14 (FF), Dirdigger_16 (FF), Donatella_15 (FF), Elesar_15 (FF), GoodLuckBabe_16 (FF), Guinevere_16 (FF), Gusanita_14 (FF), Halloweekend_14 (FF), Ichiang_14 (FF), IsHungry_16 (FF), Julie_16 (FF), Kihatsu_17 (FF), Lenoxika_16 (FF), Merpity_13 (FQ), MillySue_16 (FF), MrSmee_12 (FQ), Nandita_16 (FF), Popper_14 (FF), QuinnAvery_16 (FF), Raqqa_13 (AY), Ryan_16 (FF), Schism_16 (FF), Skitty_12 (FQ), ToastyOats_18 (FF), Toodles_17 (FF), Yonex_16 (FF), Zaheer_16 (FF), Zucker_14 (FN),

Start 7:

- Found in 3 of 44 (6.8%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Elfy_11 (FP), GrimEater_13 (FP), Jankie_14 (FP),

Start 8:

- Found in 1 of 44 (2.3%) of genes in pham
- Manual Annotations of this start: 1 of 27
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CallinAllBarbz_12 (FP),

Start 9:

- Found in 2 of 44 (4.5%) of genes in pham
- Manual Annotations of this start: 2 of 27
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BaileyBlu_12 (FP), Shambre1_14 (singleton),

Start 10:

- Found in 4 of 44 (9.1%) of genes in pham
- Manual Annotations of this start: 1 of 27
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Samy_17 (singleton),

Summary by clusters:

There are 7 clusters represented in this pham: FP, FQ, singleton, BA, FF, AY, FN,

Info for manual annotations of cluster AY:

- Start number 4 was manually annotated 1 time for cluster AY.

Info for manual annotations of cluster FF:

- Start number 4 was manually annotated 17 times for cluster FF.

Info for manual annotations of cluster FN:

- Start number 4 was manually annotated 3 times for cluster FN.

Info for manual annotations of cluster FP:

- Start number 8 was manually annotated 1 time for cluster FP.
- Start number 9 was manually annotated 1 time for cluster FP.

Info for manual annotations of cluster FQ:

- Start number 4 was manually annotated 2 times for cluster FQ.

Gene Information:

Gene: AbbyDaisy_13 Start: 7857, Stop: 8522, Start Num: 4

Candidate Starts for AbbyDaisy_13:

(Start: 4 @7857 has 23 MA's), (17, 7950), (27, 8064), (33, 8127), (36, 8145), (38, 8175), (43, 8265), (53, 8349), (56, 8397), (60, 8421), (64, 8451), (65, 8463),

Gene: AllBusiness_15 Start: 9307, Stop: 9975, Start Num: 4

Candidate Starts for AllBusiness_15:

(Start: 4 @9307 has 23 MA's), (20, 9442), (29, 9529), (36, 9595), (43, 9715), (62, 9886), (64, 9901),

Gene: ArV2_11 Start: 7388, Stop: 8074, Start Num: 1

Candidate Starts for ArV2_11:

(1, 7388), (2, 7394), (Start: 4 @7409 has 23 MA's), (Start: 10 @7454 has 1 MA's), (14, 7487), (24, 7580), (29, 7631), (33, 7679), (35, 7691), (36, 7697), (38, 7727), (42, 7793), (46, 7838), (53, 7901), (60, 7973), (64, 8003), (65, 8015), (66, 8033),

Gene: BaileyBlu_12 Start: 7191, Stop: 7754, Start Num: 9

Candidate Starts for BaileyBlu_12:

(Start: 9 @7191 has 2 MA's), (15, 7236), (18, 7248), (21, 7293), (30, 7398), (35, 7434), (40, 7500), (44, 7539), (48, 7566), (49, 7590), (53, 7617), (55, 7662),

Gene: Bauer_15 Start: 9233, Stop: 9898, Start Num: 4

Candidate Starts for Bauer_15:

(Start: 4 @9233 has 23 MA's), (Start: 10 @9278 has 1 MA's), (13, 9308), (24, 9401), (25, 9404), (28, 9443), (32, 9494), (42, 9614), (64, 9824), (66, 9854),

Gene: BellaJr_15 Start: 9265, Stop: 9927, Start Num: 4

Candidate Starts for BellaJr_15:

(Start: 4 @9265 has 23 MA's), (12, 9334), (16, 9352), (17, 9358), (29, 9487), (35, 9547), (38, 9583), (39, 9619), (41, 9631), (43, 9670), (53, 9754), (63, 9844),

Gene: BigSherm_15 Start: 9252, Stop: 9920, Start Num: 4

Candidate Starts for BigSherm_15:

(Start: 4 @9252 has 23 MA's), (36, 9540), (43, 9660), (56, 9792), (64, 9846),

Gene: BlackSpider_13 Start: 8260, Stop: 8922, Start Num: 4

Candidate Starts for BlackSpider_13:

(Start: 4 @8260 has 23 MA's), (12, 8329), (16, 8347), (17, 8353), (29, 8482), (35, 8542), (38, 8578), (39, 8614), (41, 8626), (43, 8665), (49, 8725), (53, 8749),

Gene: CallinAllBarbz_12 Start: 7199, Stop: 7762, Start Num: 8

Candidate Starts for CallinAllBarbz_12:

(Start: 8 @7199 has 1 MA's), (15, 7244), (18, 7256), (21, 7301), (28, 7373), (35, 7442), (44, 7547), (48, 7574), (49, 7598), (55, 7670),

Gene: Cassini_13 Start: 8229, Stop: 8891, Start Num: 4

Candidate Starts for Cassini_13:

(Start: 4 @8229 has 23 MA's), (12, 8298), (16, 8316), (17, 8322), (29, 8451), (35, 8511), (38, 8547), (39, 8583), (41, 8595), (43, 8634), (53, 8718),

Gene: Cole_14 Start: 8911, Stop: 9579, Start Num: 4

Candidate Starts for Cole_14:

(Start: 4 @8911 has 23 MA's), (36, 9199), (43, 9319), (56, 9451), (64, 9505),

Gene: Dirtdigger_16 Start: 9229, Stop: 9897, Start Num: 4

Candidate Starts for Dirtdigger_16:

(Start: 4 @9229 has 23 MA's), (20, 9364), (29, 9451), (36, 9517), (43, 9637), (62, 9808), (64, 9823),

Gene: Donatella_15 Start: 9378, Stop: 10046, Start Num: 4

Candidate Starts for Donatella_15:

(Start: 4 @9378 has 23 MA's), (12, 9447), (29, 9600), (36, 9666), (43, 9786), (56, 9918), (64, 9972),

Gene: Elesar_15 Start: 9307, Stop: 9969, Start Num: 4

Candidate Starts for Elesar_15:

(Start: 4 @9307 has 23 MA's), (12, 9376), (16, 9394), (17, 9400), (31, 9568), (33, 9577), (35, 9589), (38, 9625), (53, 9796), (60, 9868), (63, 9886),

Gene: Elfy_11 Start: 7126, Stop: 7710, Start Num: 7

Candidate Starts for Elfy_11:

(7, 7126), (15, 7174), (22, 7234), (26, 7291), (28, 7303), (30, 7336), (31, 7351), (44, 7489), (48, 7516), (54, 7573), (55, 7612), (58, 7627), (59, 7633),

Gene: GoodLuckBabe_16 Start: 9206, Stop: 9874, Start Num: 4

Candidate Starts for GoodLuckBabe_16:

(Start: 4 @9206 has 23 MA's), (29, 9428), (36, 9494), (39, 9560), (43, 9614), (64, 9800),

Gene: GrimEater_13 Start: 7199, Stop: 7771, Start Num: 7

Candidate Starts for GrimEater_13:

(7, 7199), (15, 7247), (30, 7409), (44, 7550), (45, 7562), (54, 7634), (55, 7673),

Gene: Guinevere_16 Start: 9237, Stop: 9905, Start Num: 4

Candidate Starts for Guinevere_16:

(Start: 4 @9237 has 23 MA's), (12, 9306), (29, 9459), (36, 9525), (43, 9645), (56, 9777), (64, 9831),

Gene: Gusanita_14 Start: 9128, Stop: 9796, Start Num: 4

Candidate Starts for Gusanita_14:

(Start: 4 @9128 has 23 MA's), (20, 9263), (29, 9350), (36, 9416), (43, 9536), (62, 9707), (64, 9722),

Gene: Halloweekend_14 Start: 8878, Stop: 9546, Start Num: 4

Candidate Starts for Halloweekend_14:

(Start: 4 @8878 has 23 MA's), (29, 9100), (36, 9166), (43, 9286), (56, 9418), (64, 9472),

Gene: Ichiang_14 Start: 8893, Stop: 9561, Start Num: 4

Candidate Starts for Ichiang_14:

(Start: 4 @8893 has 23 MA's), (12, 8962), (29, 9115), (36, 9181), (43, 9301), (64, 9487),

Gene: IsHungry_16 Start: 9202, Stop: 9870, Start Num: 4

Candidate Starts for IsHungry_16:

(Start: 4 @9202 has 23 MA's), (20, 9337), (29, 9424), (36, 9490), (43, 9610), (62, 9781), (64, 9796),

Gene: Jankie_14 Start: 7198, Stop: 7770, Start Num: 7

Candidate Starts for Jankie_14:

(7, 7198), (15, 7246), (30, 7408), (44, 7549), (45, 7561), (54, 7633), (55, 7672),

Gene: Julie_16 Start: 9465, Stop: 10133, Start Num: 4

Candidate Starts for Julie_16:

(Start: 4 @9465 has 23 MA's), (20, 9600), (29, 9687), (36, 9753), (43, 9873), (62, 10044),

Gene: Kihatsu_17 Start: 9559, Stop: 10227, Start Num: 4

Candidate Starts for Kihatsu_17:

(Start: 4 @9559 has 23 MA's), (36, 9847), (43, 9967), (56, 10099), (64, 10153),

Gene: Lenoxika_16 Start: 9239, Stop: 9907, Start Num: 4

Candidate Starts for Lenoxika_16:

(Start: 4 @9239 has 23 MA's), (12, 9308), (29, 9461), (36, 9527), (43, 9647), (56, 9779), (64, 9833),

Gene: Merpity_13 Start: 7019, Stop: 7681, Start Num: 4

Candidate Starts for Merpity_13:

(Start: 4 @7019 has 23 MA's), (12, 7088), (16, 7106), (17, 7112), (29, 7241), (35, 7301), (38, 7337), (39, 7373), (41, 7385), (43, 7424), (53, 7508),

Gene: MillySue_16 Start: 9251, Stop: 9919, Start Num: 4

Candidate Starts for MillySue_16:

(Start: 4 @9251 has 23 MA's), (20, 9386), (29, 9473), (36, 9539), (43, 9659), (64, 9845),

Gene: MrSmee_12 Start: 7019, Stop: 7681, Start Num: 4

Candidate Starts for MrSmee_12:

(Start: 4 @7019 has 23 MA's), (12, 7088), (16, 7106), (17, 7112), (29, 7241), (35, 7301), (38, 7337), (39, 7373), (41, 7385), (43, 7424), (53, 7508),

Gene: Nandita_16 Start: 9237, Stop: 9905, Start Num: 4

Candidate Starts for Nandita_16:

(Start: 4 @9237 has 23 MA's), (12, 9306), (29, 9459), (36, 9525), (43, 9645), (56, 9777), (64, 9831),

Gene: Popper_14 Start: 8768, Stop: 9433, Start Num: 4

Candidate Starts for Popper_14:

(Start: 4 @8768 has 23 MA's), (29, 8990), (33, 9038), (35, 9050), (36, 9056), (38, 9086), (43, 9176), (50, 9239), (54, 9266), (64, 9362),

Gene: QuinnAvery_16 Start: 9252, Stop: 9920, Start Num: 4

Candidate Starts for QuinnAvery_16:

(Start: 4 @9252 has 23 MA's), (36, 9540), (43, 9660), (56, 9792), (64, 9846),

Gene: Raqqa_13 Start: 8165, Stop: 8830, Start Num: 4

Candidate Starts for Raqqa_13:

(Start: 4 @8165 has 23 MA's), (13, 8240), (17, 8258), (20, 8300), (27, 8372), (29, 8387), (36, 8453), (37, 8462), (38, 8483), (47, 8597), (53, 8657),

Gene: Ryan_16 Start: 9383, Stop: 10051, Start Num: 4

Candidate Starts for Ryan_16:

(Start: 4 @9383 has 23 MA's), (29, 9605), (36, 9671), (43, 9791), (56, 9923), (64, 9977),

Gene: SPB78_13 Start: 8500, Stop: 9165, Start Num: 3

Candidate Starts for SPB78_13:

(3, 8500), (6, 8518), (11, 8566), (12, 8575), (23, 8659), (28, 8713), (34, 8773), (51, 8977), (58, 9055),

Gene: Samy_17 Start: 9940, Stop: 10539, Start Num: 10

Candidate Starts for Samy_17:

(5, 9904), (Start: 10 @9940 has 1 MA's), (12, 9964), (19, 10006), (31, 10156), (52, 10366), (56, 10423), (57, 10429), (58, 10435), (59, 10441), (64, 10477), (67, 10510),

Gene: Schism_16 Start: 9237, Stop: 9905, Start Num: 4

Candidate Starts for Schism_16:

(Start: 4 @9237 has 23 MA's), (12, 9306), (29, 9459), (36, 9525), (43, 9645), (56, 9777), (64, 9831),

Gene: Shambre1_14 Start: 9456, Stop: 10025, Start Num: 9

Candidate Starts for Shambre1_14:

(Start: 9 @9456 has 2 MA's), (36, 9705), (48, 9849), (49, 9873), (55, 9945), (61, 9984),

Gene: Skitty_12 Start: 7019, Stop: 7681, Start Num: 4

Candidate Starts for Skitty_12:

(Start: 4 @7019 has 23 MA's), (12, 7088), (16, 7106), (17, 7112), (29, 7241), (35, 7301), (38, 7337), (39, 7373), (41, 7385), (43, 7424), (53, 7508),

Gene: ToastyOats_18 Start: 9715, Stop: 10383, Start Num: 4

Candidate Starts for ToastyOats_18:

(Start: 4 @9715 has 23 MA's), (36, 10003), (43, 10123), (56, 10255), (64, 10309),

Gene: Toodles_17 Start: 9447, Stop: 10112, Start Num: 4

Candidate Starts for Toodles_17:

(Start: 4 @9447 has 23 MA's), (23, 9606), (33, 9717), (36, 9735), (43, 9855), (62, 10026), (64, 10041),

Gene: Yonex_16 Start: 9383, Stop: 10051, Start Num: 4

Candidate Starts for Yonex_16:

(Start: 4 @9383 has 23 MA's), (29, 9605), (36, 9671), (43, 9791), (56, 9923), (64, 9977),

Gene: Zaheer_16 Start: 9472, Stop: 10140, Start Num: 4

Candidate Starts for Zaheer_16:

(Start: 4 @9472 has 23 MA's), (12, 9541), (29, 9694), (36, 9760), (43, 9880), (64, 10066),

Gene: Zucker_14 Start: 8546, Stop: 9211, Start Num: 4

Candidate Starts for Zucker_14:

(Start: 4 @8546 has 23 MA's), (Start: 10 @8591 has 1 MA's), (13, 8621), (24, 8714), (25, 8717), (28, 8756), (32, 8807), (42, 8927), (64, 9137), (66, 9167),