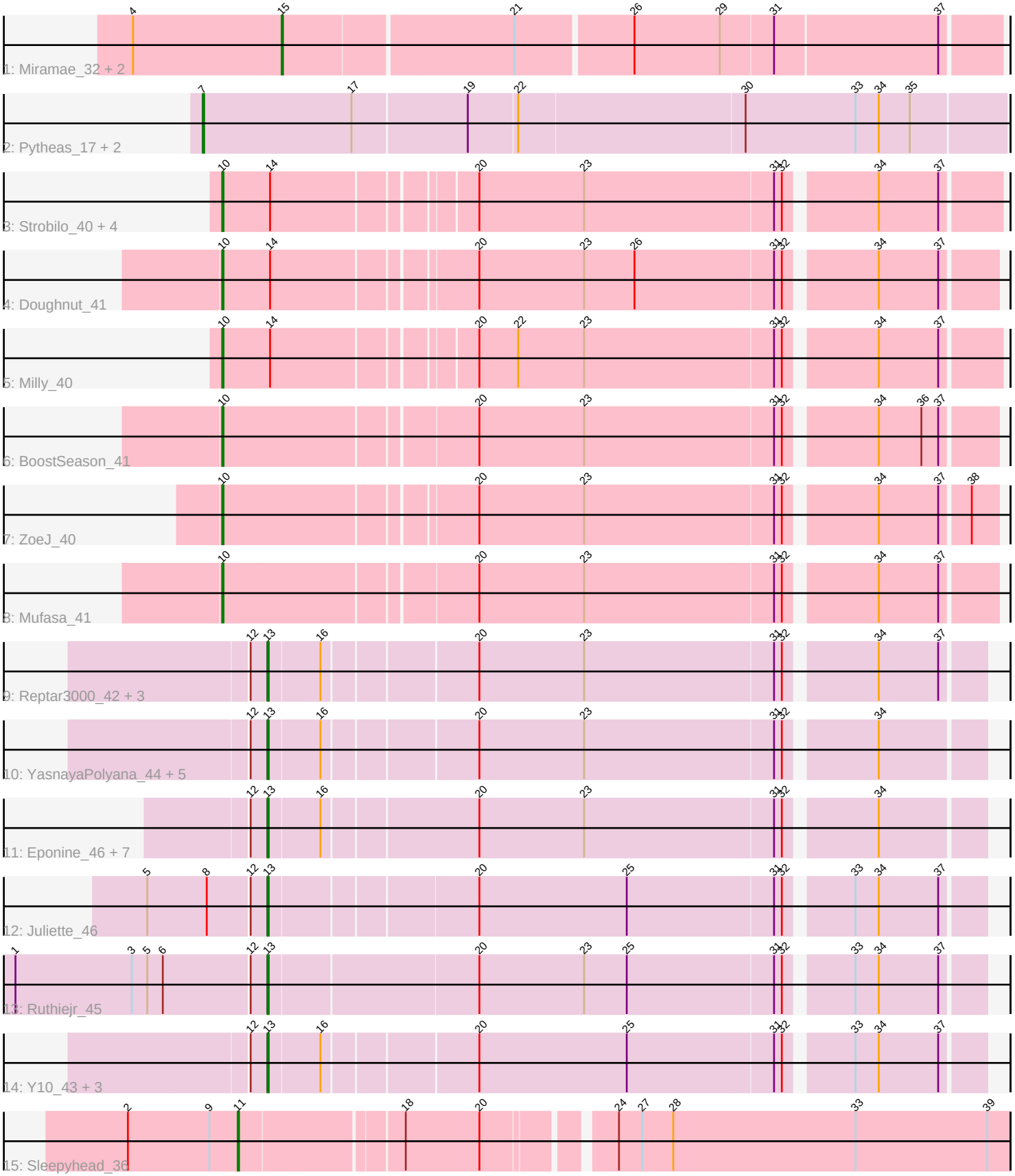
Pham 347795


1: Miramae_32 + 2
2: Pytheas_17 + 2
3: Strobilo_40 + 4
4: Doughnut_41
5: Milly_40
6: BoostSeason_41
7: ZoeJ_40
8: Mufasa_41
9: Reptar3000_42 + 3
10: YasnayaPolyana_44 + 5
11: Eponine_46 + 7
12: Juliette_46
13: Ruthiejr_45
14: Y10_43 + 3
15: Sleepyhead_36

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 347795 Report

This analysis was run 11/14/26 on database version 672.

Pham number 347795 has 41 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Miramae_32, Stink_33, AvatarAhPeg_33
• Track 2 : Pytheas_17, LonelyBoi_17, Jablanski_17
• Track 3 : Strobilo_40, DismalStressor_40, Marcoliusprime_40, DismalFunk_40, Findley_40
• Track 4 : Doughnut_41
• Track 5 : Milly_40
• Track 6 : BoostSeason_41
• Track 7 : ZoeJ_40
• Track 8 : Mufasa_41
• Track 9 : Reptar3000_42, Bobquesha_45, MissDaisy_42, Patt_41
• Track 10 : YasnayaPolyana_44, OmniCritical_43, Lebo14_44, Mitti_44, Taquito_44, Wintermute_44
• Track 11 : Eponine_46, Malthus_45, Cheetobro_44, Chancellor_44, Fionnbharth_44, Slarp_44, SamScheppers_43, Kraw_44
• Track 12 : Juliette_46
• Track 13 : Ruthiejr_45
• Track 14 : Y10_43, Nolwazi_46, Y2_43, JF1_44
• Track 15 : Sleepyhead_36

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

The start number called the most often in the published annotations is 13, it was called in 22 of the 39 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Bobquesha_45, Chancellor_44, Cheetobro_44, Eponine_46, Fionnbharth_44, JF1_44, Juliette_46, Kraw_44, Lebo14_44, Malthus_45, MissDaisy_42, Mitti_44, Nolwazi_46, OmniCritical_43, Patt_41, Reptar3000_42, Ruthiejr_45, SamScheppers_43, Slarp_44, Taquito_44, Wintermute_44, Y10_43, Y2_43, YasnayaPolyana_44,

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

Genes that do not have the "Most Annotated" start:
• AvatarAhPeg_33, BoostSeason_41, DismalFunk_40, DismalStressor_40, Doughnut_41, Findley_40, Jablanski_17, LonelyBoi_17, Marcoliusprime_40, Milly_40, Miramae_32, Mufasa_41, Pytheas_17, Sleepyhead_36, Stink_33, Strobilo_40, ZoeJ_40,

Summary by start number:

Start 7:
• Found in 3 of 41 (7.3%) of genes in pham
• Manual Annotations of this start: 3 of 39
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Jablanski_17 (CY3), LonelyBoi_17 (CY7), Pytheas_17 (CY3),

Start 10:
• Found in 10 of 41 (24.4%) of genes in pham
• Manual Annotations of this start: 10 of 39
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BoostSeason_41 (K2), DismalFunk_40 (K2), DismalStressor_40 (K2), Doughnut_41 (K2), Findley_40 (K2), Marcoliusprime_40 (K2), Milly_40 (K2), Mufasa_41 (K2), Strobilo_40 (K2), ZoeJ_40 (K2),

Start 11:
• Found in 1 of 41 (2.4%) of genes in pham
• Manual Annotations of this start: 1 of 39
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sleepyhead_36 (singleton),

Start 13:
• Found in 24 of 41 (58.5%) of genes in pham
• Manual Annotations of this start: 22 of 39
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bobquesha_45 (K4), Chancellor_44 (K4), Cheetobro_44 (K4), Eponine_46 (K4), Fionnbharth_44 (K4), JF1_44 (K4), Juliette_46 (K4), Kraw_44 (K4), Lebo14_44 (K4), Malthus_45 (K4), MissDaisy_42 (K4), Mitti_44 (K4), Nolwazi_46 (K4), OmniCritical_43 (K4), Patt_41 (K4), Reptar3000_42 (K4), Ruthiejr_45 (K4), SamScheppers_43 (K4), Slarp_44 (K4), Taquito_44 (K4), Wintermute_44 (K4), Y10_43 (K4), Y2_43 (K4), YasnayaPolyana_44 (K4),

Start 15:
• Found in 3 of 41 (7.3%) of genes in pham
• Manual Annotations of this start: 3 of 39
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AvatarAhPeg_33 (A4), Miramae_32 (A4), Stink_33 (A4),

Summary by clusters:

There are 6 clusters represented in this pham: CY3, singleton, CY7, K2, A4, K4,

Info for manual annotations of cluster A4:
•Start number 15 was manually annotated 3 times for cluster A4.

Info for manual annotations of cluster CY3:
•Start number 7 was manually annotated 2 times for cluster CY3.

Info for manual annotations of cluster CY7:
•Start number 7 was manually annotated 1 time for cluster CY7.

Info for manual annotations of cluster K2:
•Start number 10 was manually annotated 10 times for cluster K2.

Info for manual annotations of cluster K4:
•Start number 13 was manually annotated 22 times for cluster K4.

Gene Information:

Gene: AvatarAhPeg_33 Start: 25688, Stop: 25158, Start Num: 15
Candidate Starts for AvatarAhPeg_33:
(4, 25802), (Start: 15 @25688 has 3 MA's), (21, 25517), (26, 25430), (29, 25364), (31, 25325), (37, 25202),

Gene: Bobquesha_45 Start: 32677, Stop: 32156, Start Num: 13
Candidate Starts for Bobquesha_45:
(12, 32689), (Start: 13 @32677 has 22 MA's), (16, 32638), (20, 32527), (23, 32446), (31, 32302), (32, 32296), (34, 32233), (37, 32188),

Gene: BoostSeason_41 Start: 31967, Stop: 31401, Start Num: 10
Candidate Starts for BoostSeason_41:
(Start: 10 @31967 has 10 MA's), (20, 31781), (23, 31700), (31, 31556), (32, 31550), (34, 31487), (36, 31454), (37, 31442),

Gene: Chancellor_44 Start: 33293, Stop: 32769, Start Num: 13
Candidate Starts for Chancellor_44:
(12, 33305), (Start: 13 @33293 has 22 MA's), (16, 33254), (20, 33140), (23, 33059), (31, 32915), (32, 32909), (34, 32846),

Gene: Cheetobro_44 Start: 33290, Stop: 32766, Start Num: 13
Candidate Starts for Cheetobro_44:
(12, 33302), (Start: 13 @33290 has 22 MA's), (16, 33251), (20, 33137), (23, 33056), (31, 32912), (32, 32906), (34, 32843),

Gene: DismalFunk_40 Start: 32057, Stop: 31494, Start Num: 10
Candidate Starts for DismalFunk_40:
(Start: 10 @32057 has 10 MA's), (14, 32021), (20, 31877), (23, 31796), (31, 31652), (32, 31646), (34, 31583), (37, 31538),

Gene: DismalStressor_40 Start: 32057, Stop: 31494, Start Num: 10
Candidate Starts for DismalStressor_40:
(Start: 10 @32057 has 10 MA's), (14, 32021), (20, 31877), (23, 31796), (31, 31652), (32, 31646), (34, 31583), (37, 31538),

Gene: Doughnut_41 Start: 31954, Stop: 31391, Start Num: 10
Candidate Starts for Doughnut_41:
(Start: 10 @31954 has 10 MA's), (14, 31918), (20, 31771), (23, 31690), (26, 31651), (31, 31546), (32, 31540), (34, 31477), (37, 31432),

Gene: Eponine_46 Start: 34046, Stop: 33522, Start Num: 13
Candidate Starts for Eponine_46:
(12, 34058), (Start: 13 @34046 has 22 MA's), (16, 34007), (20, 33893), (23, 33812), (31, 33668), (32, 33662), (34, 33599),

Gene: Findley_40 Start: 32050, Stop: 31487, Start Num: 10
Candidate Starts for Findley_40:
(Start: 10 @32050 has 10 MA's), (14, 32014), (20, 31870), (23, 31789), (31, 31645), (32, 31639), (34, 31576), (37, 31531),

Gene: Fionnbharth_44 Start: 33443, Stop: 32922, Start Num: 13
Candidate Starts for Fionnbharth_44:
(12, 33455), (Start: 13 @33443 has 22 MA's), (16, 33404), (20, 33293), (23, 33212), (31, 33068), (32, 33062), (34, 32999),

Gene: JF1_44 Start: 33356, Stop: 32835, Start Num: 13
Candidate Starts for JF1_44:
(12, 33368), (Start: 13 @33356 has 22 MA's), (16, 33317), (20, 33206), (25, 33092), (31, 32981), (32, 32975), (33, 32930), (34, 32912), (37, 32867),

Gene: Jablanski_17 Start: 10955, Stop: 10350, Start Num: 7
Candidate Starts for Jablanski_17:
(Start: 7 @10955 has 3 MA's), (17, 10841), (19, 10754), (22, 10718), (30, 10547), (33, 10463), (34, 10445), (35, 10421),

Gene: Juliette_46 Start: 33515, Stop: 32994, Start Num: 13
Candidate Starts for Juliette_46:
(5, 33602), (8, 33557), (12, 33527), (Start: 13 @33515 has 22 MA's), (20, 33365), (25, 33251), (31, 33140), (32, 33134), (33, 33089), (34, 33071), (37, 33026),

Gene: Kraw_44 Start: 33205, Stop: 32681, Start Num: 13
Candidate Starts for Kraw_44:
(12, 33217), (Start: 13 @33205 has 22 MA's), (16, 33166), (20, 33052), (23, 32971), (31, 32827), (32, 32821), (34, 32758),

Gene: Lebo14_44 Start: 33468, Stop: 32947, Start Num: 13
Candidate Starts for Lebo14_44:
(12, 33480), (Start: 13 @33468 has 22 MA's), (16, 33429), (20, 33318), (23, 33237), (31, 33093), (32, 33087), (34, 33024),

Gene: LonelyBoi_17 Start: 10955, Stop: 10350, Start Num: 7
Candidate Starts for LonelyBoi_17:
(Start: 7 @10955 has 3 MA's), (17, 10841), (19, 10754), (22, 10718), (30, 10547), (33, 10463), (34, 10445), (35, 10421),

Gene: Malthus_45 Start: 33205, Stop: 32681, Start Num: 13
Candidate Starts for Malthus_45:

(12, 33217), (Start: 13 @33205 has 22 MA's), (16, 33166), (20, 33052), (23, 32971), (31, 32827), (32, 32821), (34, 32758),

Gene: Marcoliusprime_40 Start: 32057, Stop: 31494, Start Num: 10
Candidate Starts for Marcoliusprime_40:
(Start: 10 @32057 has 10 MA's), (14, 32021), (20, 31877), (23, 31796), (31, 31652), (32, 31646), (34, 31583), (37, 31538),

Gene: Milly_40 Start: 32030, Stop: 31467, Start Num: 10
Candidate Starts for Milly_40:
(Start: 10 @32030 has 10 MA's), (14, 31994), (20, 31850), (22, 31820), (23, 31769), (31, 31625), (32, 31619), (34, 31556), (37, 31511),

Gene: Miramae_32 Start: 25351, Stop: 24821, Start Num: 15
Candidate Starts for Miramae_32:
(4, 25465), (Start: 15 @25351 has 3 MA's), (21, 25180), (26, 25093), (29, 25027), (31, 24988), (37, 24865),

Gene: MissDaisy_42 Start: 32689, Stop: 32168, Start Num: 13
Candidate Starts for MissDaisy_42:
(12, 32701), (Start: 13 @32689 has 22 MA's), (16, 32650), (20, 32539), (23, 32458), (31, 32314), (32, 32308), (34, 32245), (37, 32200),

Gene: Mitti_44 Start: 33380, Stop: 32859, Start Num: 13
Candidate Starts for Mitti_44:
(12, 33392), (Start: 13 @33380 has 22 MA's), (16, 33341), (20, 33230), (23, 33149), (31, 33005), (32, 32999), (34, 32936),

Gene: Mufasa_41 Start: 31957, Stop: 31391, Start Num: 10
Candidate Starts for Mufasa_41:
(Start: 10 @31957 has 10 MA's), (20, 31771), (23, 31690), (31, 31546), (32, 31540), (34, 31477), (37, 31432),

Gene: Nolwazi_46 Start: 33282, Stop: 32761, Start Num: 13
Candidate Starts for Nolwazi_46:
(12, 33294), (Start: 13 @33282 has 22 MA's), (16, 33243), (20, 33132), (25, 33018), (31, 32907), (32, 32901), (33, 32856), (34, 32838), (37, 32793),

Gene: OmniCritical_43 Start: 33187, Stop: 32666, Start Num: 13
Candidate Starts for OmniCritical_43:
(12, 33199), (Start: 13 @33187 has 22 MA's), (16, 33148), (20, 33037), (23, 32956), (31, 32812), (32, 32806), (34, 32743),

Gene: Patt_41 Start: 32413, Stop: 31892, Start Num: 13
Candidate Starts for Patt_41:
(12, 32425), (Start: 13 @32413 has 22 MA's), (16, 32374), (20, 32263), (23, 32182), (31, 32038), (32, 32032), (34, 31969), (37, 31924),

Gene: Pytheas_17 Start: 10955, Stop: 10350, Start Num: 7
Candidate Starts for Pytheas_17:
(Start: 7 @10955 has 3 MA's), (17, 10841), (19, 10754), (22, 10718), (30, 10547), (33, 10463), (34, 10445), (35, 10421),

Gene: Reptar3000_42 Start: 32404, Stop: 31883, Start Num: 13
Candidate Starts for Reptar3000_42:
(12, 32416), (Start: 13 @32404 has 22 MA's), (16, 32365), (20, 32254), (23, 32173), (31, 32029), (32, 32023), (34, 31960), (37, 31915),

Gene: Ruthiejr_45 Start: 33253, Stop: 32726, Start Num: 13
Candidate Starts for Ruthiejr_45:
(1, 33442), (3, 33352), (5, 33340), (6, 33328), (12, 33265), (Start: 13 @33253 has 22 MA's), (20, 33097), (23, 33016), (25, 32983), (31, 32872), (32, 32866), (33, 32821), (34, 32803), (37, 32758),

Gene: SamScheppers_43 Start: 33684, Stop: 33160, Start Num: 13
Candidate Starts for SamScheppers_43:
(12, 33696), (Start: 13 @33684 has 22 MA's), (16, 33645), (20, 33531), (23, 33450), (31, 33306), (32, 33300), (34, 33237),

Gene: Slarp_44 Start: 33293, Stop: 32769, Start Num: 13
Candidate Starts for Slarp_44:
(12, 33305), (Start: 13 @33293 has 22 MA's), (16, 33254), (20, 33140), (23, 33059), (31, 32915), (32, 32909), (34, 32846),

Gene: Sleepyhead_36 Start: 27868, Stop: 27305, Start Num: 11
Candidate Starts for Sleepyhead_36:
(2, 27952), (9, 27889), (Start: 11 @27868 has 1 MA's), (18, 27751), (20, 27694), (24, 27607), (27, 27589), (28, 27565), (33, 27424), (39, 27322),

Gene: Stink_33 Start: 25688, Stop: 25158, Start Num: 15
Candidate Starts for Stink_33:
(4, 25802), (Start: 15 @25688 has 3 MA's), (21, 25517), (26, 25430), (29, 25364), (31, 25325), (37, 25202),

Gene: Strobilo_40 Start: 32031, Stop: 31468, Start Num: 10
Candidate Starts for Strobilo_40:
(Start: 10 @32031 has 10 MA's), (14, 31995), (20, 31851), (23, 31770), (31, 31626), (32, 31620), (34, 31557), (37, 31512),

Gene: Taquito_44 Start: 33679, Stop: 33155, Start Num: 13
Candidate Starts for Taquito_44:
(12, 33691), (Start: 13 @33679 has 22 MA's), (16, 33640), (20, 33526), (23, 33445), (31, 33301), (32, 33295), (34, 33232),

Gene: Wintermute_44 Start: 33441, Stop: 32920, Start Num: 13
Candidate Starts for Wintermute_44:
(12, 33453), (Start: 13 @33441 has 22 MA's), (16, 33402), (20, 33291), (23, 33210), (31, 33066), (32, 33060), (34, 32997),

Gene: Y10_43 Start: 33356, Stop: 32835, Start Num: 13
Candidate Starts for Y10_43:
(12, 33368), (Start: 13 @33356 has 22 MA's), (16, 33317), (20, 33206), (25, 33092), (31, 32981), (32, 32975), (33, 32930), (34, 32912), (37, 32867),

Gene: Y2_43 Start: 33356, Stop: 32835, Start Num: 13
Candidate Starts for Y2_43:

(12, 33368), (Start: 13 @33356 has 22 MA's), (16, 33317), (20, 33206), (25, 33092), (31, 32981), (32, 32975), (33, 32930), (34, 32912), (37, 32867),

Gene: YasnayaPolyana_44 Start: 33290, Stop: 32769, Start Num: 13
Candidate Starts for YasnayaPolyana_44:
(12, 33302), (Start: 13 @33290 has 22 MA's), (16, 33251), (20, 33140), (23, 33059), (31, 32915), (32, 32909), (34, 32846),

Gene: ZoeJ_40 Start: 31721, Stop: 31158, Start Num: 10
Candidate Starts for ZoeJ_40:
(Start: 10 @31721 has 10 MA's), (20, 31538), (23, 31457), (31, 31313), (32, 31307), (34, 31244), (37, 31199), (38, 31178),