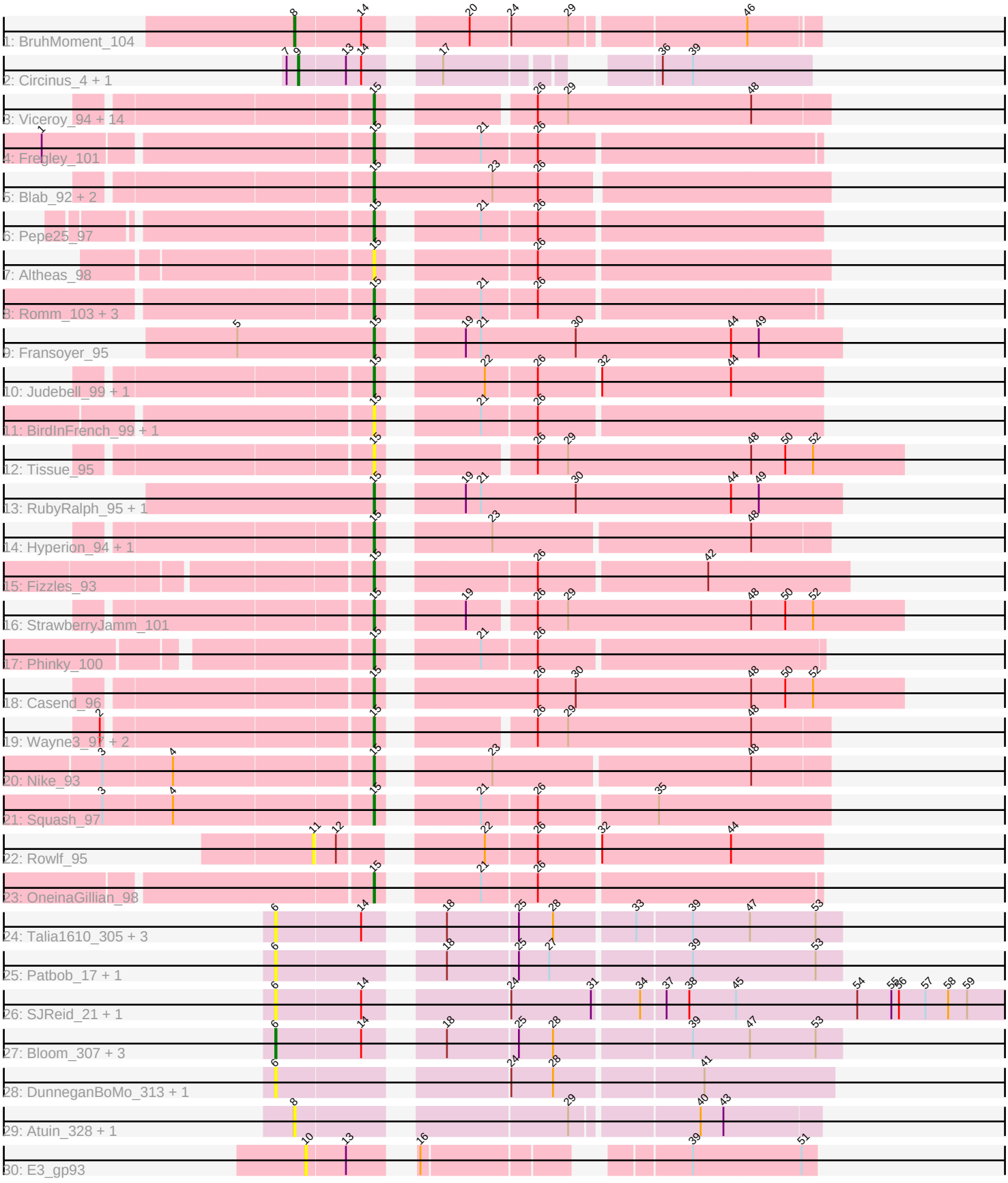
Pham 163600


1: BruhMoment_104
2: Circinus_4 + 1
3: Viceroy_94 + 14
4: Fregley_101
5: Blab_92 + 2
6: Pepe25_97
7: Altheas_98
8: Romm_103 + 3
9: Fransoyer_95
10: Judebell_99 + 1
11: BirdInFrench_99 + 1
12: Tissue_95
13: RubyRalph_95 + 1
14: Hyperion_94 + 1
15: Fizzles_93
16: StrawberryJamm_101
17: Phinky_100
18: Casend_96
19: Wayne3_97 + 2
20: Nike_93
21: Squash_97
22: Rowlf_95
23: OneinaGillian_98
24: Talia1610_305 + 3
25: Patbob_17 + 1
26: SJReid_21 + 1
27: Bloom_307 + 3
28: DunneganBoMo_313 + 1
29: Atuin_328 + 1
30: E3_gp93

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 163600 Report

This analysis was run 04/28/24 on database version 559.

Pham number 163600 has 66 members, 27 are drafts.

Phages represented in each track:
• Track 1 : BruhMoment_104
• Track 2 : Circinus_4, Circinus_249
• Track 3 : Viceroy_94, Namago_97, Rudy_93, DonaldDuck_97, Grassboy_100, Kyva_99, Zagie_97, SallyK_97, Lonelysoil_93, Sillytadpoles_98, Teehee_96, Zhafia_101, Quammi_95, Llemily_97, Jehoshaphat_97
• Track 4 : Fregley_101
• Track 5 : Blab_92, AluminumJesus_92, Gazebo_94
• Track 6 : Pepe25_97
• Track 7 : Altheas_98
• Track 8 : Romm_103, Kelcole_100, RobinRose_103, Tempo_102
• Track 9 : Fransoyer_95
• Track 10 : Judebell_99, BabyDotz_93
• Track 11 : BirdInFrench_99, Wilca_99
• Track 12 : Tissue_95
• Track 13 : RubyRalph_95, SadLad_96
• Track 14 : Hyperion_94, Mashley_94
• Track 15 : Fizzles_93
• Track 16 : StrawberryJamm_101
• Track 17 : Phinky_100
• Track 18 : Casend_96
• Track 19 : Wayne3_97, Wheelie_95, Phabia_95
• Track 20 : Nike_93
• Track 21 : Squash_97
• Track 22 : Rowlf_95
• Track 23 : OneinaGillian_98
• Track 24 : Talia1610_305, Mimi_310, Talia1610_18, Mimi_20
• Track 25 : Patbob_17, Patbob_307
• Track 26 : SJReid_21, SJReid_332
• Track 27 : Bloom_307, Bloom_20, Racecar_19, Racecar_308
• Track 28 : DunneganBoMo_313, DunneganBoMo_10
• Track 29 : Atuin_328, Atuin_21
• Track 30 : E3_gp93

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

The start number called the most often in the published annotations is 15, it was called in 34 of the 39 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Altheas_98, AluminumJesus_92, BabyDotz_93, BirdInFrench_99, Blab_92, Casend_96, DonaldDuck_97, Fizzles_93, Fransoyer_95, Fregley_101, Gazebo_94, Grassboy_100, Hyperion_94, Jehoshaphat_97, Judebell_99, Kelcole_100, Kyva_99, Llemily_97, Lonelysoil_93, Mashley_94, Namago_97, Nike_93, OneinaGillian_98, Pepe25_97, Phabia_95, Phinky_100, Quammi_95, RobinRose_103, Romm_103, RubyRalph_95, Rudy_93, SadLad_96, SallyK_97, Sillytadpoles_98, Squash_97, StrawberryJamm_101, Teehee_96, Tempo_102, Tissue_95, Viceroy_94, Wayne3_97, Wheelie_95, Wilca_99, Zagie_97, Zhafia_101,

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

Genes that do not have the "Most Annotated" start:
• Atuin_21, Atuin_328, Bloom_20, Bloom_307, BruhMoment_104, Circinus_249, Circinus_4, DunneganBoMo_10, DunneganBoMo_313, E3_gp93, Mimi_20, Mimi_310, Patbob_17, Patbob_307, Racecar_19, Racecar_308, Rowlf_95, SJReid_21, SJReid_332, Talia1610_18, Talia1610_305,

Summary by start number:

Start 6:
• Found in 14 of 66 (21.2%) of genes in pham
• Manual Annotations of this start: 2 of 39
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bloom_20 (FC), Bloom_307 (FC), DunneganBoMo_10 (FC), DunneganBoMo_313 (FC), Mimi_20 (FC), Mimi_310 (FC), Patbob_17 (FC), Patbob_307 (FC), Racecar_19 (FC), Racecar_308 (FC), SJReid_21 (FC), SJReid_332 (FC), Talia1610_18 (FC), Talia1610_305 (FC),

Start 8:
• Found in 3 of 66 (4.5%) 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: Atuin_21 (FC), Atuin_328 (FC), BruhMoment_104 (AP3),

Start 9:
• Found in 2 of 66 (3.0%) of genes in pham
• Manual Annotations of this start: 2 of 39
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Circinus_249 (BK2), Circinus_4 (BK2),

Start 10:
• Found in 1 of 66 (1.5%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: E3_gp93 (singleton),

Start 11:
• Found in 1 of 66 (1.5%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Rowlf_95 (EG),

Start 15:
• Found in 45 of 66 (68.2%) of genes in pham
• Manual Annotations of this start: 34 of 39
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Altheas_98 (EG), AluminumJesus_92 (EG), BabyDotz_93 (EG), BirdInFrench_99 (EG), Blab_92 (EG), Casend_96 (EG), DonaldDuck_97 (EG), Fizzles_93 (EG), Fransoyer_95 (EG), Fregley_101 (EG), Gazebo_94 (EG), Grassboy_100 (EG), Hyperion_94 (EG), Jehoshaphat_97 (EG), Judebell_99 (EG), Kelcole_100 (EG), Kyva_99 (EG), Llemily_97 (EG), Lonelysoil_93 (EG), Mashley_94 (EG), Namago_97 (EG), Nike_93 (EG), OneinaGillian_98 (EG), Pepe25_97 (EG), Phabia_95 (EG), Phinky_100 (EG), Quammi_95 (EG), RobinRose_103 (EG), Romm_103 (EG), RubyRalph_95 (EG), Rudy_93 (EG), SadLad_96 (EG), SallyK_97 (EG), Sillytadpoles_98 (EG), Squash_97 (EG), StrawberryJamm_101 (EG), Teehee_96 (EG), Tempo_102 (EG), Tissue_95 (EG), Viceroy_94 (EG), Wayne3_97 (EG), Wheelie_95 (EG), Wilca_99 (EG), Zagie_97 (EG), Zhafia_101 (EG),

Summary by clusters:

There are 5 clusters represented in this pham: AP3, EG, FC, singleton, BK2,

Info for manual annotations of cluster AP3:
•Start number 8 was manually annotated 1 time for cluster AP3.

Info for manual annotations of cluster BK2:
•Start number 9 was manually annotated 2 times for cluster BK2.

Info for manual annotations of cluster EG:
•Start number 15 was manually annotated 34 times for cluster EG.

Info for manual annotations of cluster FC:
•Start number 6 was manually annotated 2 times for cluster FC.

Gene Information:

Gene: Altheas_98 Start: 58956, Stop: 58630, Start Num: 15
Candidate Starts for Altheas_98:
(Start: 15 @58956 has 34 MA's), (26, 58854),

Gene: AluminumJesus_92 Start: 57388, Stop: 57038, Start Num: 15
Candidate Starts for AluminumJesus_92:
(Start: 15 @57388 has 34 MA's), (23, 57295), (26, 57259),

Gene: Atuin_328 Start: 186877, Stop: 187248, Start Num: 8
Candidate Starts for Atuin_328:

(Start: 8 @186877 has 1 MA's), (29, 187063), (40, 187156), (43, 187174),

Gene: Atuin_21 Start: 9989, Stop: 10360, Start Num: 8
Candidate Starts for Atuin_21:
(Start: 8 @9989 has 1 MA's), (29, 10175), (40, 10268), (43, 10286),

Gene: BabyDotz_93 Start: 59232, Stop: 58912, Start Num: 15
Candidate Starts for BabyDotz_93:
(Start: 15 @59232 has 34 MA's), (22, 59169), (26, 59130), (32, 59085), (44, 58983),

Gene: BirdInFrench_99 Start: 59663, Stop: 59343, Start Num: 15
Candidate Starts for BirdInFrench_99:
(Start: 15 @59663 has 34 MA's), (21, 59603), (26, 59561),

Gene: Blab_92 Start: 57961, Stop: 57611, Start Num: 15
Candidate Starts for Blab_92:
(Start: 15 @57961 has 34 MA's), (23, 57868), (26, 57832),

Gene: Bloom_307 Start: 182892, Stop: 183299, Start Num: 6
Candidate Starts for Bloom_307:
(Start: 6 @182892 has 2 MA's), (14, 182958), (18, 183000), (25, 183054), (28, 183081), (39, 183183), (47, 183228), (53, 183279),

Gene: Bloom_20 Start: 9417, Stop: 9824, Start Num: 6
Candidate Starts for Bloom_20:
(Start: 6 @9417 has 2 MA's), (14, 9483), (18, 9525), (25, 9579), (28, 9606), (39, 9708), (47, 9753), (53, 9804),

Gene: BruhMoment_104 Start: 63229, Stop: 62861, Start Num: 8
Candidate Starts for BruhMoment_104:
(Start: 8 @63229 has 1 MA's), (14, 63178), (20, 63118), (24, 63088), (29, 63043), (46, 62914),

Gene: Casend_96 Start: 58580, Stop: 58188, Start Num: 15
Candidate Starts for Casend_96:
(Start: 15 @58580 has 34 MA's), (26, 58475), (30, 58445), (48, 58307), (50, 58280), (52, 58259),

Gene: Circinus_4 Start: 1488, Stop: 1817, Start Num: 9
Candidate Starts for Circinus_4:
(7, 1479), (Start: 9 @1488 has 2 MA's), (13, 1524), (14, 1536), (17, 1575), (36, 1701), (39, 1725),

Gene: Circinus_249 Start: 125815, Stop: 126144, Start Num: 9
Candidate Starts for Circinus_249:
(7, 125806), (Start: 9 @125815 has 2 MA's), (13, 125851), (14, 125863), (17, 125902), (36, 126028), (39, 126052),

Gene: DonaldDuck_97 Start: 57965, Stop: 57642, Start Num: 15
Candidate Starts for DonaldDuck_97:
(Start: 15 @57965 has 34 MA's), (26, 57869), (29, 57845), (48, 57701),

Gene: DunneganBoMo_313 Start: 183982, Stop: 184383, Start Num: 6
Candidate Starts for DunneganBoMo_313:
(Start: 6 @183982 has 2 MA's), (24, 184138), (28, 184171), (41, 184282),

Gene: DunneganBoMo_10 Start: 4570, Stop: 4971, Start Num: 6
Candidate Starts for DunneganBoMo_10:
(Start: 6 @4570 has 2 MA's), (24, 4726), (28, 4759), (41, 4870),

Gene: E3_gp93 Start: 53631, Stop: 53960, Start Num: 10
Candidate Starts for E3_gp93:
(10, 53631), (13, 53661), (16, 53694), (39, 53865), (51, 53949),

Gene: Fizzles_93 Start: 57979, Stop: 57638, Start Num: 15
Candidate Starts for Fizzles_93:
(Start: 15 @57979 has 34 MA's), (26, 57877), (42, 57748),

Gene: Fransoyer_95 Start: 59536, Stop: 59192, Start Num: 15
Candidate Starts for Fransoyer_95:
(5, 59644), (Start: 15 @59536 has 34 MA's), (19, 59488), (21, 59476), (30, 59401), (44, 59278), (49, 59257),

Gene: Fregley_101 Start: 59890, Stop: 59573, Start Num: 15
Candidate Starts for Fregley_101:
(1, 60133), (Start: 15 @59890 has 34 MA's), (21, 59830), (26, 59788),

Gene: Gazebo_94 Start: 57966, Stop: 57616, Start Num: 15
Candidate Starts for Gazebo_94:
(Start: 15 @57966 has 34 MA's), (23, 57873), (26, 57837),

Gene: Grassboy_100 Start: 58866, Stop: 58543, Start Num: 15
Candidate Starts for Grassboy_100:
(Start: 15 @58866 has 34 MA's), (26, 58770), (29, 58746), (48, 58602),

Gene: Hyperion_94 Start: 58008, Stop: 57682, Start Num: 15
Candidate Starts for Hyperion_94:
(Start: 15 @58008 has 34 MA's), (23, 57939), (48, 57741),

Gene: Jehoshaphat_97 Start: 58599, Stop: 58276, Start Num: 15
Candidate Starts for Jehoshaphat_97:
(Start: 15 @58599 has 34 MA's), (26, 58503), (29, 58479), (48, 58335),

Gene: Judebell_99 Start: 57999, Stop: 57679, Start Num: 15
Candidate Starts for Judebell_99:
(Start: 15 @57999 has 34 MA's), (22, 57936), (26, 57897), (32, 57852), (44, 57750),

Gene: Kelcole_100 Start: 60397, Stop: 60080, Start Num: 15
Candidate Starts for Kelcole_100:
(Start: 15 @60397 has 34 MA's), (21, 60337), (26, 60295),

Gene: Kyva_99 Start: 58890, Stop: 58567, Start Num: 15
Candidate Starts for Kyva_99:
(Start: 15 @58890 has 34 MA's), (26, 58794), (29, 58770), (48, 58626),

Gene: Llemily_97 Start: 57660, Stop: 57337, Start Num: 15
Candidate Starts for Llemily_97:
(Start: 15 @57660 has 34 MA's), (26, 57564), (29, 57540), (48, 57396),

Gene: Lonelysoil_93 Start: 57421, Stop: 57098, Start Num: 15
Candidate Starts for Lonelysoil_93:
(Start: 15 @57421 has 34 MA's), (26, 57325), (29, 57301), (48, 57157),

Gene: Mashley_94 Start: 58097, Stop: 57771, Start Num: 15
Candidate Starts for Mashley_94:
(Start: 15 @58097 has 34 MA's), (23, 58028), (48, 57830),

Gene: Mimi_310 Start: 181514, Stop: 181921, Start Num: 6
Candidate Starts for Mimi_310:
(Start: 6 @181514 has 2 MA's), (14, 181580), (18, 181622), (25, 181676), (28, 181703), (33, 181763), (39, 181805), (47, 181850), (53, 181901),

Gene: Mimi_20 Start: 8854, Stop: 9261, Start Num: 6
Candidate Starts for Mimi_20:
(Start: 6 @8854 has 2 MA's), (14, 8920), (18, 8962), (25, 9016), (28, 9043), (33, 9103), (39, 9145), (47, 9190), (53, 9241),

Gene: Namago_97 Start: 58147, Stop: 57824, Start Num: 15
Candidate Starts for Namago_97:
(Start: 15 @58147 has 34 MA's), (26, 58051), (29, 58027), (48, 57883),

Gene: Nike_93 Start: 58369, Stop: 58043, Start Num: 15
Candidate Starts for Nike_93:
(3, 58570), (4, 58516), (Start: 15 @58369 has 34 MA's), (23, 58300), (48, 58102),

Gene: OneinaGillian_98 Start: 59292, Stop: 58975, Start Num: 15
Candidate Starts for OneinaGillian_98:
(Start: 15 @59292 has 34 MA's), (21, 59232), (26, 59190),

Gene: Patbob_17 Start: 8860, Stop: 9267, Start Num: 6
Candidate Starts for Patbob_17:
(Start: 6 @8860 has 2 MA's), (18, 8968), (25, 9022), (27, 9046), (39, 9151), (53, 9247),

Gene: Patbob_307 Start: 184319, Stop: 184726, Start Num: 6
Candidate Starts for Patbob_307:
(Start: 6 @184319 has 2 MA's), (18, 184427), (25, 184481), (27, 184505), (39, 184610), (53, 184706),

Gene: Pepe25_97 Start: 58582, Stop: 58262, Start Num: 15
Candidate Starts for Pepe25_97:
(Start: 15 @58582 has 34 MA's), (21, 58522), (26, 58480),

Gene: Phabia_95 Start: 57997, Stop: 57674, Start Num: 15
Candidate Starts for Phabia_95:
(2, 58192), (Start: 15 @57997 has 34 MA's), (26, 57901), (29, 57877), (48, 57733),

Gene: Phinky_100 Start: 59739, Stop: 59419, Start Num: 15
Candidate Starts for Phinky_100:
(Start: 15 @59739 has 34 MA's), (21, 59679), (26, 59637),

Gene: Quammi_95 Start: 57942, Stop: 57619, Start Num: 15
Candidate Starts for Quammi_95:
(Start: 15 @57942 has 34 MA's), (26, 57846), (29, 57822), (48, 57678),

Gene: Racecar_19 Start: 9417, Stop: 9824, Start Num: 6
Candidate Starts for Racecar_19:
(Start: 6 @9417 has 2 MA's), (14, 9483), (18, 9525), (25, 9579), (28, 9606), (39, 9708), (47, 9753), (53, 9804),

Gene: Racecar_308 Start: 183126, Stop: 183533, Start Num: 6
Candidate Starts for Racecar_308:
(Start: 6 @183126 has 2 MA's), (14, 183192), (18, 183234), (25, 183288), (28, 183315), (39, 183417), (47, 183462), (53, 183513),

Gene: RobinRose_103 Start: 60420, Stop: 60103, Start Num: 15
Candidate Starts for RobinRose_103:
(Start: 15 @60420 has 34 MA's), (21, 60360), (26, 60318),

Gene: Romm_103 Start: 60417, Stop: 60100, Start Num: 15
Candidate Starts for Romm_103:
(Start: 15 @60417 has 34 MA's), (21, 60357), (26, 60315),

Gene: Rowlf_95 Start: 57851, Stop: 57492, Start Num: 11
Candidate Starts for Rowlf_95:
(11, 57851), (12, 57836), (22, 57749), (26, 57710), (32, 57665), (44, 57563),

Gene: RubyRalph_95 Start: 59140, Stop: 58796, Start Num: 15
Candidate Starts for RubyRalph_95:
(Start: 15 @59140 has 34 MA's), (19, 59092), (21, 59080), (30, 59005), (44, 58882), (49, 58861),

Gene: Rudy_93 Start: 57808, Stop: 57485, Start Num: 15
Candidate Starts for Rudy_93:
(Start: 15 @57808 has 34 MA's), (26, 57712), (29, 57688), (48, 57544),

Gene: SJReid_21 Start: 9248, Stop: 9805, Start Num: 6
Candidate Starts for SJReid_21:
(Start: 6 @9248 has 2 MA's), (14, 9314), (24, 9404), (31, 9467), (34, 9500), (37, 9518), (38, 9536), (45, 9572), (54, 9668), (55, 9695), (56, 9701), (57, 9722), (58, 9740), (59, 9755),

Gene: SJReid_332 Start: 182087, Stop: 182644, Start Num: 6
Candidate Starts for SJReid_332:
(Start: 6 @182087 has 2 MA's), (14, 182153), (24, 182243), (31, 182306), (34, 182339), (37, 182357), (38, 182375), (45, 182411), (54, 182507), (55, 182534), (56, 182540), (57, 182561), (58, 182579), (59, 182594),

Gene: SadLad_96 Start: 60059, Stop: 59715, Start Num: 15
Candidate Starts for SadLad_96:
(Start: 15 @60059 has 34 MA's), (19, 60011), (21, 59999), (30, 59924), (44, 59801), (49, 59780),

Gene: SallyK_97 Start: 58963, Stop: 58640, Start Num: 15
Candidate Starts for SallyK_97:
(Start: 15 @58963 has 34 MA's), (26, 58867), (29, 58843), (48, 58699),

Gene: Sillytadpoles_98 Start: 57648, Stop: 57325, Start Num: 15
Candidate Starts for Sillytadpoles_98:
(Start: 15 @57648 has 34 MA's), (26, 57552), (29, 57528), (48, 57384),

Gene: Squash_97 Start: 58351, Stop: 58025, Start Num: 15
Candidate Starts for Squash_97:
(3, 58552), (4, 58498), (Start: 15 @58351 has 34 MA's), (21, 58291), (26, 58249), (35, 58159),

Gene: StrawberryJamm_101 Start: 57923, Stop: 57540, Start Num: 15
Candidate Starts for StrawberryJamm_101:
(Start: 15 @57923 has 34 MA's), (19, 57875), (26, 57827), (29, 57803), (48, 57659), (50, 57632), (52, 57611),

Gene: Talia1610_305 Start: 183328, Stop: 183735, Start Num: 6
Candidate Starts for Talia1610_305:
(Start: 6 @183328 has 2 MA's), (14, 183394), (18, 183436), (25, 183490), (28, 183517), (33, 183577), (39, 183619), (47, 183664), (53, 183715),

Gene: Talia1610_18 Start: 8856, Stop: 9263, Start Num: 6
Candidate Starts for Talia1610_18:
(Start: 6 @8856 has 2 MA's), (14, 8922), (18, 8964), (25, 9018), (28, 9045), (33, 9105), (39, 9147), (47, 9192), (53, 9243),

Gene: Teehee_96 Start: 58596, Stop: 58273, Start Num: 15
Candidate Starts for Teehee_96:
(Start: 15 @58596 has 34 MA's), (26, 58500), (29, 58476), (48, 58332),

Gene: Tempo_102 Start: 60454, Stop: 60137, Start Num: 15
Candidate Starts for Tempo_102:
(Start: 15 @60454 has 34 MA's), (21, 60394), (26, 60352),

Gene: Tissue_95 Start: 58587, Stop: 58204, Start Num: 15
Candidate Starts for Tissue_95:
(Start: 15 @58587 has 34 MA's), (26, 58491), (29, 58467), (48, 58323), (50, 58296), (52, 58275),

Gene: Viceroy_94 Start: 57763, Stop: 57440, Start Num: 15
Candidate Starts for Viceroy_94:
(Start: 15 @57763 has 34 MA's), (26, 57667), (29, 57643), (48, 57499),

Gene: Wayne3_97 Start: 58566, Stop: 58243, Start Num: 15
Candidate Starts for Wayne3_97:
(2, 58761), (Start: 15 @58566 has 34 MA's), (26, 58470), (29, 58446), (48, 58302),

Gene: Wheelie_95 Start: 57887, Stop: 57564, Start Num: 15
Candidate Starts for Wheelie_95:
(2, 58082), (Start: 15 @57887 has 34 MA's), (26, 57791), (29, 57767), (48, 57623),

Gene: Wilca_99 Start: 59663, Stop: 59343, Start Num: 15
Candidate Starts for Wilca_99:
(Start: 15 @59663 has 34 MA's), (21, 59603), (26, 59561),

Gene: Zagie_97 Start: 58408, Stop: 58085, Start Num: 15
Candidate Starts for Zagie_97:
(Start: 15 @58408 has 34 MA's), (26, 58312), (29, 58288), (48, 58144),

Gene: Zhafia_101 Start: 58442, Stop: 58119, Start Num: 15

Candidate Starts for Zhafia_101:
(Start: 15 @58442 has 34 MA's), (26, 58346), (29, 58322), (48, 58178),