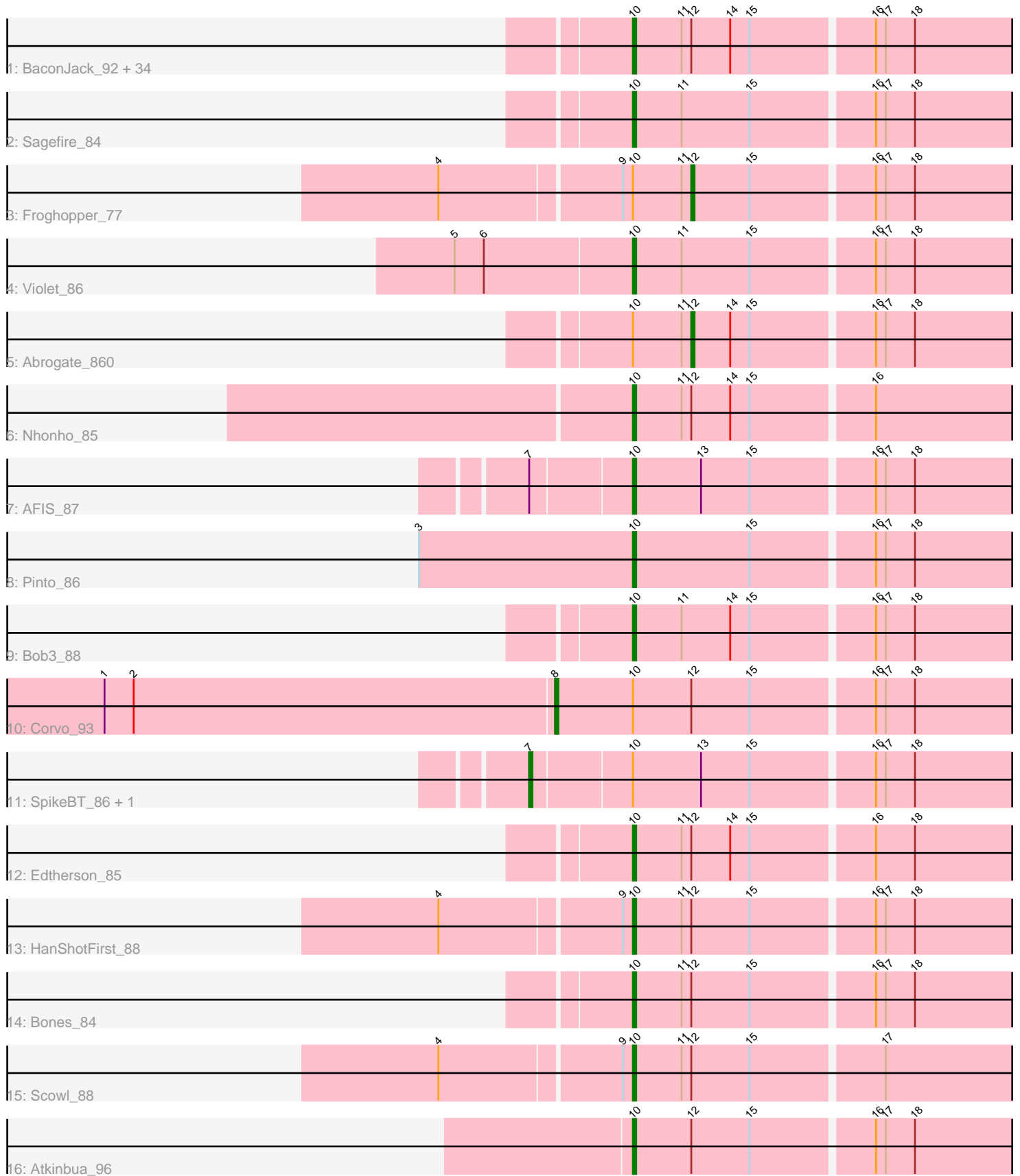


Pham 161918



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 161918 Report

This analysis was run 05/04/24 on database version 560.

Pham number 161918 has 51 members, 3 are drafts.

Phages represented in each track:

- Track 1 : BaconJack_92, Ashballer_89, SkiPole_96, Bexan_85, Perseus_88, Marge_85, Lamina13_91, MPlant7149_88, StrongArm_86, Aeneas_93, Barriga_99, HermioneGrange_92, Tasp14_85, Beatrix_87, Paphu_84, Jorgensen_98, Rutherford_89, BigMau_89, Hami1_81, Applejack_87, Sumter_85, Parliament_88, JC27_92, JackSparrow_90, RidgeCB_87, Smairt_95, Rohr_90, Trouble_88, Paraselene_85, PhrostyMug_92, Nerujay_91, Mule_90, HarryOW_89, StewieG_84, Sunshine924_91
- Track 2 : Sagefire_84
- Track 3 : Froghopper_77
- Track 4 : Violet_86
- Track 5 : Abrogate_860
- Track 6 : Nhonho_85
- Track 7 : AFIS_87
- Track 8 : Pinto_86
- Track 9 : Bob3_88
- Track 10 : Corvo_93
- Track 11 : SpikeBT_86, NEHalo_87
- Track 12 : Edtherson_85
- Track 13 : HanShotFirst_88
- Track 14 : Bones_84
- Track 15 : Scowl_88
- Track 16 : Atkinbua_96

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

The start number called the most often in the published annotations is 10, it was called in 43 of the 48 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AFIS_87, Aeneas_93, Applejack_87, Ashballer_89, Atkinbua_96, BaconJack_92, Barriga_99, Beatrix_87, Bexan_85, BigMau_89, Bob3_88, Bones_84, Edtherson_85, Hami1_81, HanShotFirst_88, HarryOW_89, HermioneGrange_92, JC27_92, JackSparrow_90, Jorgensen_98, Lamina13_91, MPlant7149_88, Marge_85, Mule_90, Nerujay_91, Nhonho_85, Paphu_84, Paraselene_85, Parliament_88,

Perseus_88, PhrostyMug_92, Pinto_86, RidgeCB_87, Rohr_90, Rutherford_89, Sagefire_84, Scowl_88, SkiPole_96, Smairt_95, StewieG_84, StrongArm_86, Sumter_85, Sunshine924_91, Tasp14_85, Trouble_88, Violet_86,

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

- Abrogate_860, Corvo_93, Froghopper_77, NEHalo_87, SpikeBT_86,

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

-

Summary by start number:

Start 7:

- Found in 3 of 51 (5.9%) of genes in pham
- Manual Annotations of this start: 2 of 48
- Called 66.7% of time when present
- Phage (with cluster) where this start called: NEHalo_87 (A1), SpikeBT_86 (A1),

Start 8:

- Found in 1 of 51 (2.0%) of genes in pham
- Manual Annotations of this start: 1 of 48
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Corvo_93 (A1),

Start 10:

- Found in 51 of 51 (100.0%) of genes in pham
- Manual Annotations of this start: 43 of 48
- Called 90.2% of time when present
- Phage (with cluster) where this start called: AFIS_87 (A1), Aeneas_93 (A1), Applejack_87 (A1), Ashballer_89 (A1), Atkinbua_96 (A1), BaconJack_92 (A1), Barriga_99 (A1), Beatrix_87 (A1), Bexan_85 (A1), BigMau_89 (A1), Bob3_88 (A1), Bones_84 (A1), Edtherson_85 (A1), Hami1_81 (A1), HanShotFirst_88 (A1), HarryOW_89 (A1), HermioneGrange_92 (A1), JC27_92 (A1), JackSparrow_90 (A1), Jorgensen_98 (A1), Lamina13_91 (A1), MPlant7149_88 (A1), Marge_85 (A1), Mule_90 (A1), Nerujay_91 (A1), Nhonho_85 (A1), Paphu_84 (A1), Paraselene_85 (A1), Parliament_88 (A1), Perseus_88 (A1), PhrostyMug_92 (A1), Pinto_86 (A1), RidgeCB_87 (A1), Rohr_90 (A1), Rutherford_89 (A1), Sagefire_84 (A1), Scowl_88 (A1), SkiPole_96 (A1), Smairt_95 (A1), StewieG_84 (A1), StrongArm_86 (A1), Sumter_85 (A1), Sunshine924_91 (A1), Tasp14_85 (A1), Trouble_88 (A1), Violet_86 (A1),

Start 12:

- Found in 44 of 51 (86.3%) of genes in pham
- Manual Annotations of this start: 2 of 48
- Called 4.5% of time when present
- Phage (with cluster) where this start called: Abrogate_860 (A1), Froghopper_77 (A1),

Summary by clusters:

There is one cluster represented in this pham: A1

Info for manual annotations of cluster A1:

- Start number 7 was manually annotated 2 times for cluster A1.
- Start number 8 was manually annotated 1 time for cluster A1.
- Start number 10 was manually annotated 43 times for cluster A1.
- Start number 12 was manually annotated 2 times for cluster A1.

Gene Information:

Gene: AFIS_87 Start: 51060, Stop: 50941, Start Num: 10

Candidate Starts for AFIS_87:

(Start: 7 @51090 has 2 MA's), (Start: 10 @51060 has 43 MA's), (13, 51039), (15, 51024), (16, 50988), (17, 50985), (18, 50976),

Gene: Abrogate_860 Start: 50519, Stop: 50418, Start Num: 12

Candidate Starts for Abrogate_860:

(Start: 10 @50537 has 43 MA's), (11, 50522), (Start: 12 @50519 has 2 MA's), (14, 50507), (15, 50501), (16, 50465), (17, 50462), (18, 50453),

Gene: Aeneas_93 Start: 51837, Stop: 51718, Start Num: 10

Candidate Starts for Aeneas_93:

(Start: 10 @51837 has 43 MA's), (11, 51822), (Start: 12 @51819 has 2 MA's), (14, 51807), (15, 51801), (16, 51765), (17, 51762), (18, 51753),

Gene: Applejack_87 Start: 47776, Stop: 47657, Start Num: 10

Candidate Starts for Applejack_87:

(Start: 10 @47776 has 43 MA's), (11, 47761), (Start: 12 @47758 has 2 MA's), (14, 47746), (15, 47740), (16, 47704), (17, 47701), (18, 47692),

Gene: Ashballer_89 Start: 50239, Stop: 50120, Start Num: 10

Candidate Starts for Ashballer_89:

(Start: 10 @50239 has 43 MA's), (11, 50224), (Start: 12 @50221 has 2 MA's), (14, 50209), (15, 50203), (16, 50167), (17, 50164), (18, 50155),

Gene: Atkinbua_96 Start: 51905, Stop: 51786, Start Num: 10

Candidate Starts for Atkinbua_96:

(Start: 10 @51905 has 43 MA's), (Start: 12 @51887 has 2 MA's), (15, 51869), (16, 51833), (17, 51830), (18, 51821),

Gene: BaconJack_92 Start: 51788, Stop: 51669, Start Num: 10

Candidate Starts for BaconJack_92:

(Start: 10 @51788 has 43 MA's), (11, 51773), (Start: 12 @51770 has 2 MA's), (14, 51758), (15, 51752), (16, 51716), (17, 51713), (18, 51704),

Gene: Barriga_99 Start: 51578, Stop: 51459, Start Num: 10

Candidate Starts for Barriga_99:

(Start: 10 @51578 has 43 MA's), (11, 51563), (Start: 12 @51560 has 2 MA's), (14, 51548), (15, 51542), (16, 51506), (17, 51503), (18, 51494),

Gene: Beatrix_87 Start: 50434, Stop: 50312, Start Num: 10

Candidate Starts for Beatrix_87:

(Start: 10 @50434 has 43 MA's), (11, 50419), (Start: 12 @50416 has 2 MA's), (14, 50404), (15, 50398), (16, 50359), (17, 50356), (18, 50347),

Gene: Bexan_85 Start: 50210, Stop: 50088, Start Num: 10

Candidate Starts for Bexan_85:

(Start: 10 @50210 has 43 MA's), (11, 50195), (Start: 12 @50192 has 2 MA's), (14, 50180), (15, 50174), (16, 50135), (17, 50132), (18, 50123),

Gene: BigMau_89 Start: 50799, Stop: 50680, Start Num: 10

Candidate Starts for BigMau_89:

(Start: 10 @50799 has 43 MA's), (11, 50784), (Start: 12 @50781 has 2 MA's), (14, 50769), (15, 50763), (16, 50727), (17, 50724), (18, 50715),

Gene: Bob3_88 Start: 50233, Stop: 50114, Start Num: 10

Candidate Starts for Bob3_88:

(Start: 10 @50233 has 43 MA's), (11, 50218), (14, 50203), (15, 50197), (16, 50161), (17, 50158), (18, 50149),

Gene: Bones_84 Start: 50684, Stop: 50565, Start Num: 10

Candidate Starts for Bones_84:

(Start: 10 @50684 has 43 MA's), (11, 50669), (Start: 12 @50666 has 2 MA's), (15, 50648), (16, 50612), (17, 50609), (18, 50600),

Gene: Corvo_93 Start: 52736, Stop: 52593, Start Num: 8

Candidate Starts for Corvo_93:

(1, 52874), (2, 52865), (Start: 8 @52736 has 1 MA's), (Start: 10 @52712 has 43 MA's), (Start: 12 @52694 has 2 MA's), (15, 52676), (16, 52640), (17, 52637), (18, 52628),

Gene: Edtherson_85 Start: 49478, Stop: 49359, Start Num: 10

Candidate Starts for Edtherson_85:

(Start: 10 @49478 has 43 MA's), (11, 49463), (Start: 12 @49460 has 2 MA's), (14, 49448), (15, 49442), (16, 49406), (18, 49394),

Gene: Froghopper_77 Start: 46958, Stop: 46857, Start Num: 12

Candidate Starts for Froghopper_77:

(4, 47033), (9, 46979), (Start: 10 @46976 has 43 MA's), (11, 46961), (Start: 12 @46958 has 2 MA's), (15, 46940), (16, 46904), (17, 46901), (18, 46892),

Gene: Hami1_81 Start: 45856, Stop: 45737, Start Num: 10

Candidate Starts for Hami1_81:

(Start: 10 @45856 has 43 MA's), (11, 45841), (Start: 12 @45838 has 2 MA's), (14, 45826), (15, 45820), (16, 45784), (17, 45781), (18, 45772),

Gene: HanShotFirst_88 Start: 51140, Stop: 51021, Start Num: 10

Candidate Starts for HanShotFirst_88:

(4, 51197), (9, 51143), (Start: 10 @51140 has 43 MA's), (11, 51125), (Start: 12 @51122 has 2 MA's), (15, 51104), (16, 51068), (17, 51065), (18, 51056),

Gene: HarryOW_89 Start: 51080, Stop: 50961, Start Num: 10

Candidate Starts for HarryOW_89:

(Start: 10 @51080 has 43 MA's), (11, 51065), (Start: 12 @51062 has 2 MA's), (14, 51050), (15, 51044), (16, 51008), (17, 51005), (18, 50996),

Gene: HermioneGrange_92 Start: 51294, Stop: 51175, Start Num: 10

Candidate Starts for HermioneGrange_92:

(Start: 10 @51294 has 43 MA's), (11, 51279), (Start: 12 @51276 has 2 MA's), (14, 51264), (15, 51258), (16, 51222), (17, 51219), (18, 51210),

Gene: JC27_92 Start: 50311, Stop: 50192, Start Num: 10

Candidate Starts for JC27_92:

(Start: 10 @50311 has 43 MA's), (11, 50296), (Start: 12 @50293 has 2 MA's), (14, 50281), (15, 50275), (16, 50239), (17, 50236), (18, 50227),

Gene: JackSparrow_90 Start: 49749, Stop: 49630, Start Num: 10

Candidate Starts for JackSparrow_90:

(Start: 10 @49749 has 43 MA's), (11, 49734), (Start: 12 @49731 has 2 MA's), (14, 49719), (15, 49713), (16, 49677), (17, 49674), (18, 49665),

Gene: Jorgensen_98 Start: 51770, Stop: 51651, Start Num: 10

Candidate Starts for Jorgensen_98:

(Start: 10 @51770 has 43 MA's), (11, 51755), (Start: 12 @51752 has 2 MA's), (14, 51740), (15, 51734), (16, 51698), (17, 51695), (18, 51686),

Gene: Lamina13_91 Start: 51403, Stop: 51284, Start Num: 10

Candidate Starts for Lamina13_91:

(Start: 10 @51403 has 43 MA's), (11, 51388), (Start: 12 @51385 has 2 MA's), (14, 51373), (15, 51367), (16, 51331), (17, 51328), (18, 51319),

Gene: MPlant7149_88 Start: 49524, Stop: 49405, Start Num: 10

Candidate Starts for MPlant7149_88:

(Start: 10 @49524 has 43 MA's), (11, 49509), (Start: 12 @49506 has 2 MA's), (14, 49494), (15, 49488), (16, 49452), (17, 49449), (18, 49440),

Gene: Marge_85 Start: 49414, Stop: 49295, Start Num: 10

Candidate Starts for Marge_85:

(Start: 10 @49414 has 43 MA's), (11, 49399), (Start: 12 @49396 has 2 MA's), (14, 49384), (15, 49378), (16, 49342), (17, 49339), (18, 49330),

Gene: Mule_90 Start: 49618, Stop: 49499, Start Num: 10

Candidate Starts for Mule_90:

(Start: 10 @49618 has 43 MA's), (11, 49603), (Start: 12 @49600 has 2 MA's), (14, 49588), (15, 49582), (16, 49546), (17, 49543), (18, 49534),

Gene: NEHalo_87 Start: 49900, Stop: 49751, Start Num: 7

Candidate Starts for NEHalo_87:

(Start: 7 @49900 has 2 MA's), (Start: 10 @49870 has 43 MA's), (13, 49849), (15, 49834), (16, 49798), (17, 49795), (18, 49786),

Gene: Nerujay_91 Start: 51366, Stop: 51247, Start Num: 10

Candidate Starts for Nerujay_91:

(Start: 10 @51366 has 43 MA's), (11, 51351), (Start: 12 @51348 has 2 MA's), (14, 51336), (15, 51330), (16, 51294), (17, 51291), (18, 51282),

Gene: Nhonho_85 Start: 50231, Stop: 50112, Start Num: 10

Candidate Starts for Nhonho_85:

(Start: 10 @50231 has 43 MA's), (11, 50216), (Start: 12 @50213 has 2 MA's), (14, 50201), (15, 50195), (16, 50159),

Gene: Paphu_84 Start: 48742, Stop: 48629, Start Num: 10

Candidate Starts for Paphu_84:

(Start: 10 @48742 has 43 MA's), (11, 48727), (Start: 12 @48724 has 2 MA's), (14, 48712), (15, 48706), (16, 48670), (17, 48667), (18, 48658),

Gene: Paraselene_85 Start: 49155, Stop: 49036, Start Num: 10

Candidate Starts for Paraselene_85:

(Start: 10 @49155 has 43 MA's), (11, 49140), (Start: 12 @49137 has 2 MA's), (14, 49125), (15, 49119), (16, 49083), (17, 49080), (18, 49071),

Gene: Parliament_88 Start: 51886, Stop: 51767, Start Num: 10

Candidate Starts for Parliament_88:

(Start: 10 @51886 has 43 MA's), (11, 51871), (Start: 12 @51868 has 2 MA's), (14, 51856), (15, 51850), (16, 51814), (17, 51811), (18, 51802),

Gene: Perseus_88 Start: 51414, Stop: 51295, Start Num: 10

Candidate Starts for Perseus_88:

(Start: 10 @51414 has 43 MA's), (11, 51399), (Start: 12 @51396 has 2 MA's), (14, 51384), (15, 51378), (16, 51342), (17, 51339), (18, 51330),

Gene: PhrostyMug_92 Start: 51788, Stop: 51669, Start Num: 10

Candidate Starts for PhrostyMug_92:

(Start: 10 @51788 has 43 MA's), (11, 51773), (Start: 12 @51770 has 2 MA's), (14, 51758), (15, 51752), (16, 51716), (17, 51713), (18, 51704),

Gene: Pinto_86 Start: 49930, Stop: 49811, Start Num: 10

Candidate Starts for Pinto_86:

(3, 49996), (Start: 10 @49930 has 43 MA's), (15, 49894), (16, 49858), (17, 49855), (18, 49846),

Gene: RidgeCB_87 Start: 48862, Stop: 48743, Start Num: 10

Candidate Starts for RidgeCB_87:

(Start: 10 @48862 has 43 MA's), (11, 48847), (Start: 12 @48844 has 2 MA's), (14, 48832), (15, 48826), (16, 48790), (17, 48787), (18, 48778),

Gene: Rohr_90 Start: 51614, Stop: 51495, Start Num: 10

Candidate Starts for Rohr_90:

(Start: 10 @51614 has 43 MA's), (11, 51599), (Start: 12 @51596 has 2 MA's), (14, 51584), (15, 51578), (16, 51542), (17, 51539), (18, 51530),

Gene: Rutherferd_89 Start: 50322, Stop: 50203, Start Num: 10

Candidate Starts for Rutherferd_89:

(Start: 10 @50322 has 43 MA's), (11, 50307), (Start: 12 @50304 has 2 MA's), (14, 50292), (15, 50286), (16, 50250), (17, 50247), (18, 50238),

Gene: Sagefire_84 Start: 49758, Stop: 49639, Start Num: 10

Candidate Starts for Sagefire_84:

(Start: 10 @49758 has 43 MA's), (11, 49743), (15, 49722), (16, 49686), (17, 49683), (18, 49674),

Gene: Scowl_88 Start: 50444, Stop: 50325, Start Num: 10

Candidate Starts for Scowl_88:

(4, 50501), (9, 50447), (Start: 10 @50444 has 43 MA's), (11, 50429), (Start: 12 @50426 has 2 MA's), (15, 50408), (17, 50369),

Gene: SkiPole_96 Start: 51151, Stop: 51032, Start Num: 10

Candidate Starts for SkiPole_96:

(Start: 10 @51151 has 43 MA's), (11, 51136), (Start: 12 @51133 has 2 MA's), (14, 51121), (15, 51115), (16, 51079), (17, 51076), (18, 51067),

Gene: Smairt_95 Start: 52805, Stop: 52686, Start Num: 10

Candidate Starts for Smairt_95:

(Start: 10 @52805 has 43 MA's), (11, 52790), (Start: 12 @52787 has 2 MA's), (14, 52775), (15, 52769), (16, 52733), (17, 52730), (18, 52721),

Gene: SpikeBT_86 Start: 49544, Stop: 49395, Start Num: 7

Candidate Starts for SpikeBT_86:

(Start: 7 @49544 has 2 MA's), (Start: 10 @49514 has 43 MA's), (13, 49493), (15, 49478), (16, 49442), (17, 49439), (18, 49430),

Gene: StewieG_84 Start: 47394, Stop: 47275, Start Num: 10

Candidate Starts for StewieG_84:

(Start: 10 @47394 has 43 MA's), (11, 47379), (Start: 12 @47376 has 2 MA's), (14, 47364), (15, 47358), (16, 47322), (17, 47319), (18, 47310),

Gene: StrongArm_86 Start: 50338, Stop: 50216, Start Num: 10

Candidate Starts for StrongArm_86:

(Start: 10 @50338 has 43 MA's), (11, 50323), (Start: 12 @50320 has 2 MA's), (14, 50308), (15, 50302), (16, 50263), (17, 50260), (18, 50251),

Gene: Sumter_85 Start: 50800, Stop: 50681, Start Num: 10

Candidate Starts for Sumter_85:

(Start: 10 @50800 has 43 MA's), (11, 50785), (Start: 12 @50782 has 2 MA's), (14, 50770), (15, 50764), (16, 50728), (17, 50725), (18, 50716),

Gene: Sunshine924_91 Start: 49336, Stop: 49217, Start Num: 10

Candidate Starts for Sunshine924_91:

(Start: 10 @49336 has 43 MA's), (11, 49321), (Start: 12 @49318 has 2 MA's), (14, 49306), (15, 49300), (16, 49264), (17, 49261), (18, 49252),

Gene: Tasp14_85 Start: 49566, Stop: 49447, Start Num: 10

Candidate Starts for Tasp14_85:

(Start: 10 @49566 has 43 MA's), (11, 49551), (Start: 12 @49548 has 2 MA's), (14, 49536), (15, 49530), (16, 49494), (17, 49491), (18, 49482),

Gene: Trouble_88 Start: 50243, Stop: 50124, Start Num: 10

Candidate Starts for Trouble_88:

(Start: 10 @50243 has 43 MA's), (11, 50228), (Start: 12 @50225 has 2 MA's), (14, 50213), (15, 50207), (16, 50171), (17, 50168), (18, 50159),

Gene: Violet_86 Start: 50848, Stop: 50729, Start Num: 10

Candidate Starts for Violet_86:

(5, 50902), (6, 50893), (Start: 10 @50848 has 43 MA's), (11, 50833), (15, 50812), (16, 50776), (17, 50773), (18, 50764),