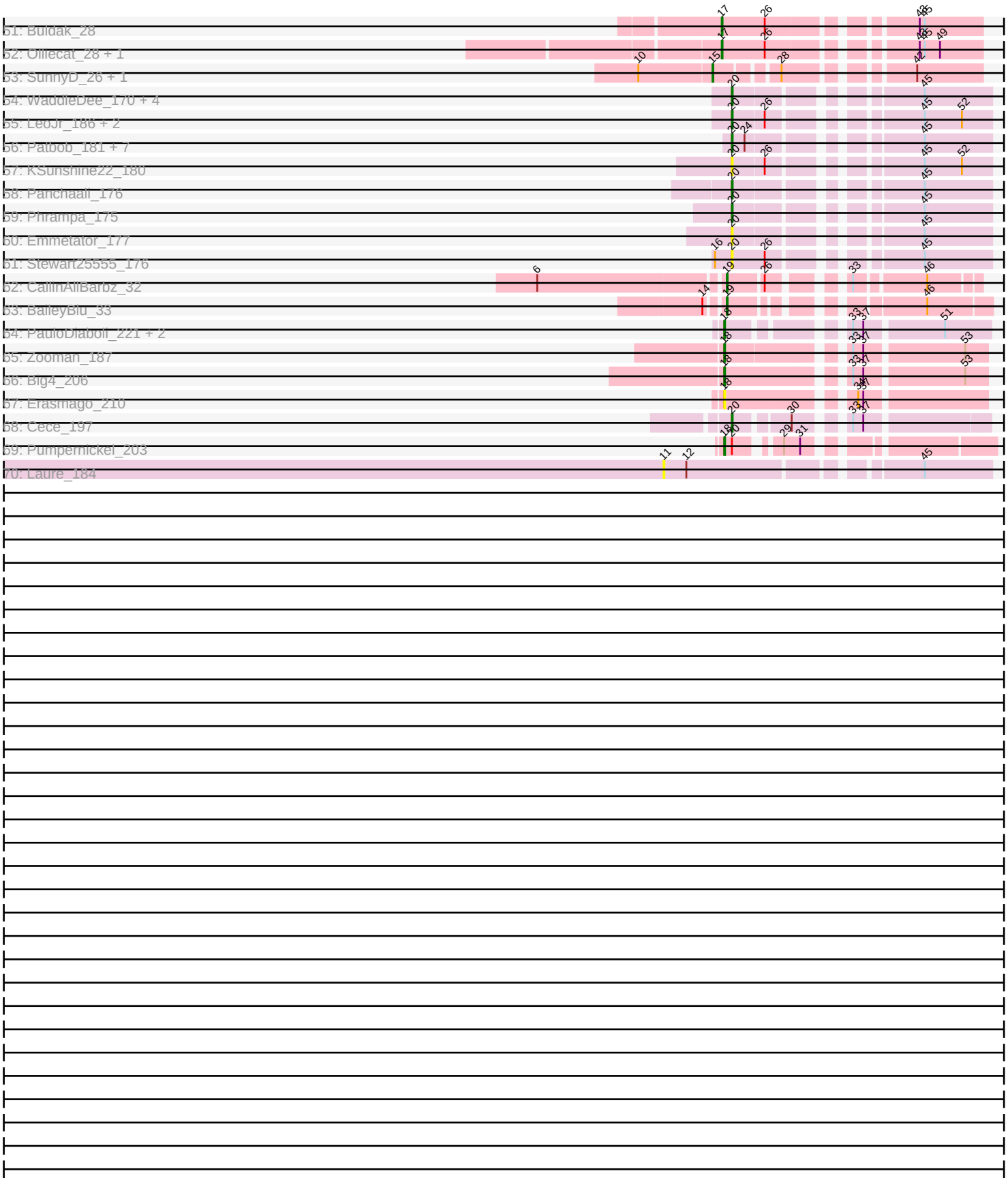
Pham 347433


1: ThursdayNight_37
2: Lizalica_31
3: DrSierra_31
4: Niobe_33 + 4
5: Elezi_33 + 2
6: Pumpkins_32
7: Cyan_32
8: Tuck_35 + 2
9: Ascela_33 + 1
10: Mudpuppy_31
11: Kayllssa_32
12: Cassia_33
13: Simpson_34 + 4
14: Crewmate_36 + 1
15: Warda_32
16: JohnDoe_32
17: Turab_31 + 3
18: MissSwiss_31
19: AGrandMora_33
20: Powerpuff_34 + 1
21: Janeemi_34
22: Tbone_31
23: Bernie_33
24: Yang_32
25: Nitro_32
26: Pixelle_32 + 2
27: KeAlli_32
28: PandaPo_31
29: Schaffner_32
30: Wildwest_32
31: Adolfin_31
32: JuneStar_32
33: ThorTroy_33
34: Tallboi_32
35: Sue2_33
36: IttyBittyPiggy_32
37: DrManhattan_31
38: VResidence_32
39: MaGuCo_33
40: Liebe_35 + 2
41: Snek_32 + 1
42: AlinMach_34
43: Peregrin_183
44: Weasels2_192
45: Grayson_188
46: Trina_214
47: Francesca_200 + 1
48: Nova53_211
49: Teagster_28
50: CliffHanger_29

Pham 347433


51: Buldak_28
52: Ollecat_28 + 1
53: SunnyD_26 + 1
54: WaddleDee_170 + 4
55: LeoJr_186 + 2
56: Patbob_181 + 7
57: KSunshine22_180
58: Panchaali_176
59: Phrampa_175
60: Emmetator_177
61: Stewart25555_176
62: CallinAllBarbz_32
63: BaileyBlu_33
64: PauloDiaboli_221 + 2
65: Zooman_187
66: Big4_206
67: Erasmago_210
68: Cece_197
69: Pumpernickel_203
70: Laure_184

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 347433 Report

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

Pham number 347433 has 111 members, 18 are drafts.

Phages represented in each track:
- Track 1 : ThursdayNight_37
- Track 2 : Lizalica_31
- Track 3 : DrSierra_31
- Track 4 : Niobe_33, Asa16_33, Eraser_33, Skelbel_34, Jstan_35
- Track 5 : Elezi_33, London_33, Subaru_33
- Track 6 : Pumpkins_32
- Track 7 : Cyan_32
- Track 8 : Tuck_35, Phives_34, Community_33
- Track 9 : Ascela_33, Iter_33
- Track 10 : Mudpuppy_31
- Track 11 : Kaylissa_32
- Track 12 : Cassia_33
- Track 13 : Simpson_34, Tutumahutu_32, Joemato_32, Lego_32, Flutur_32
- Track 14 : Crewmate_36, ObiToo_35
- Track 15 : Warda_32
- Track 16 : JohnDoe_32
- Track 17 : Turab_31, Amploria_31, Adumb2043_31, AEgle_31
- Track 18 : MissSwiss_31
- Track 19 : AGrandiflora_33
- Track 20 : Powerpuff_34, YesChef_32
- Track 21 : Janeemi_34
- Track 22 : Tbone_31
- Track 23 : Berrie_33
- Track 24 : Yang_32
- Track 25 : Nitro_32
- Track 26 : Pixelle_32, Amyev_32, Tian_32
- Track 27 : KeAlii_32
- Track 28 : PandaPo_31
- Track 29 : Schaffner_32
- Track 30 : Wildwest_32
- Track 31 : Adolin_31
- Track 32 : JuneStar_32
- Track 33 : TforTroy_33
- Track 34 : Tallboi_32
- Track 35 : Sue2_33
- Track 36 : IttyBittyPiggy_32
- Track 37 : DrManhattan_31

• Track 38 : VResidence_32
• Track 39 : MaGuCo_33
• Track 40 : Liebe_35, Maureen_35, IUFootball_35
• Track 41 : Snek_32, Tweety19_32
• Track 42 : AinMach_34
• Track 43 : Peregrin_183
• Track 44 : Weasels2_192
• Track 45 : Grayson_188
• Track 46 : Trina_214
• Track 47 : Francesca_200, Dorin_198
• Track 48 : Nova53_211
• Track 49 : Teagster_28
• Track 50 : CliffHanger_29
• Track 51 : Buldak_28
• Track 52 : Olliecat_28, Squircle_28
• Track 53 : SunnyD_26, Shayna_26
• Track 54 : WaddleDee_170, BooTeria_173, Artu_175, DunneganBoMo_174, Ellewin_174
• Track 55 : LeoJr_186, Atuin_177, ReginaGlobina_190
• Track 56 : Patbob_181, FloraSnap32_178, GoldenEssence_170, Talia1610_184, FrostedClock_184, Bloom_187, Racecar_184, Mimi_183
• Track 57 : KSunshine22_180
• Track 58 : Panchaali_176
• Track 59 : Phrampa_175
• Track 60 : Emmetator_177
• Track 61 : Stewart25555_176
• Track 62 : CallinAllBarbz_32
• Track 63 : BaileyBlu_33
• Track 64 : PauloDiaboli_221, A3Wally_221, Dodo_217
• Track 65 : Zooman_187
• Track 66 : Big4_206
• Track 67 : Erasmago_210
• Track 68 : Cece_197
• Track 69 : Pumpernickel_203
• Track 70 : Laure_184

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

The start number called the most often in the published annotations is 18, it was called in 57 of the 93 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• A3Wally_221, AEgle_31, AGrandiflora_33, Adolin_31, Adumb2043_31, AinMach_34, Amploria_31, Amyev_32, Asa16_33, Ascela_33, Berrie_33, Big4_206, Cassia_33, Community_33, Crewmate_36, Cyan_32, Dodo_217, DrManhattan_31, DrSierra_31, Elezi_33, Eraser_33, Erasmago_210, Flutur_32, Iter_33, IttyBittyPiggy_32, Janeemi_34, Joemato_32, JohnDoe_32, Jstan_35, JuneStar_32, Kaylissa_32, KeAlii_32, Lego_32, Lizalica_31, London_33, MissSwiss_31, Mudpuppy_31, Niobe_33, Nitro_32, ObiToo_35, PandaPo_31, PauloDiaboli_221, Phives_34, Pixelle_32, Powerpuff_34, Pumpernickel_203, Pumpkins_32,

Schaffner_32, Simpson_34, Skelbel_34, Snek_32, Subaru_33, Sue2_33, Tallboi_32, Tbone_31, TforTroy_33, ThursdayNight_37, Tian_32, Tuck_35, Turab_31, Tutumahutu_32, Tweety19_32, VResidence_32, Warda_32, Wildwest_32, Yang_32, YesChef_32, Zooman_187,

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

Genes that do not have the "Most Annotated" start:
• Artu_175, Atuin_177, BaileyBlu_33, Bloom_187, BooTeria_173, Buldak_28, CallinAllBarbz_32, Cece_197, CliffHanger_29, Dorin_198, DunneganBoMo_174, Ellewin_174, Emmetator_177, FloraSnap32_178, Francesca_200, FrostedClock_184, GoldenEssence_170, Grayson_188, IUFootball_35, KSunshine22_180, Laure_184, LeoJr_186, Liebe_35, MaGuCo_33, Maureen_35, Mimi_183, Nova53_211, Olliecat_28, Panchaali_176, Patbob_181, Peregrin_183, Phrampa_175, Racecar_184, ReginaGlobina_190, Shayna_26, Squircle_28, Stewart25555_176, SunnyD_26, Talia1610_184, Teagster_28, Trina_214, WaddleDee_170, Weasels2_192,

Summary by start number:

Start 11:
• Found in 1 of 111 (0.9%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Laure_184 (UNK),

Start 13:
• Found in 1 of 111 (0.9%) of genes in pham
• Manual Annotations of this start: 1 of 93
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MaGuCo_33 (AZ2),

Start 15:
• Found in 3 of 111 (2.7%) of genes in pham
• Manual Annotations of this start: 3 of 93
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Shayna_26 (EB), SunnyD_26 (EB), Teagster_28 (EB),

Start 17:
• Found in 4 of 111 (3.6%) of genes in pham
• Manual Annotations of this start: 3 of 93
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Buldak_28 (EB), Olliecat_28 (EB), Squircle_28 (EB),

Start 18:
• Found in 68 of 111 (61.3%) of genes in pham
• Manual Annotations of this start: 57 of 93
• Called 100.0% of time when present
• Phage (with cluster) where this start called: A3Wally_221 (GD1), AEgle_31 (AZ1), AGrandiflora_33 (AZ1), Adolin_31 (AZ1), Adumb2043_31 (AZ1), AinMach_34 (AZ7),

Amploria_31 (AZ1), Amyev_32 (AZ1), Asa16_33 (AZ1), Ascela_33 (AZ1), Berrie_33 (AZ1), Big4_206 (GD2), Cassia_33 (AZ1), Community_33 (AZ1), Crewmate_36 (AZ1), Cyan_32 (AZ1), Dodo_217 (GD1), DrManhattan_31 (AZ1), DrSierra_31 (AZ1), Elezi_33 (AZ1), Eraser_33 (AZ1), Erasmago_210 (GD2), Flutur_32 (AZ), Iter_33 (AZ1), IttyBittyPiggy_32 (AZ1), Janeemi_34 (AZ1), Joemato_32 (AZ1), JohnDoe_32 (AZ1), Jstan_35 (AZ1), JuneStar_32 (AZ1), Kaylissa_32 (AZ1), KeAlii_32 (AZ1), Lego_32 (AZ1), Lizalica_31 (AZ1), London_33 (AZ1), MissSwiss_31 (AZ1), Mudpuppy_31 (AZ1), Niobe_33 (AZ1), Nitro_32 (AZ1), ObiToo_35 (AZ1), PandaPo_31 (AZ1), PauloDiaboli_221 (GD1), Phives_34 (AZ1), Pixelle_32 (AZ1), Powerpuff_34 (AZ1), Pumpernickel_203 (GD4), Pumpkins_32 (AZ1), Schaffner_32 (AZ1), Simpson_34 (AZ1), Skelbel_34 (AZ1), Snek_32 (AZ3), Subaru_33 (AZ1), Sue2_33 (AZ1), Tallboi_32 (AZ1), Tbone_31 (AZ1), TforTroy_33 (AZ1), ThursdayNight_37 (AZ), Tian_32 (AZ1), Tuck_35 (AZ1), Turab_31 (AZ1), Tutumahutu_32 (AZ1), Tweety19_32 (AZ3), VResidence_32 (AZ1), Warda_32 (AZ1), Wildwest_32 (AZ1), Yang_32 (AZ1), YesChef_32 (AZ1), Zooman_187 (GD2),

Start 19:
• Found in 2 of 111 (1.8%) of genes in pham
• Manual Annotations of this start: 2 of 93
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BaileyBlu_33 (FP), CallinAllBarbz_32 (FP),

Start 20:
• Found in 27 of 111 (24.3%) of genes in pham
• Manual Annotations of this start: 20 of 93
• Called 96.3% of time when present
• Phage (with cluster) where this start called: Artu_175 (FC), Atuin_177 (FC), Bloom_187 (FC), BooTeria_173 (FC), Cece_197 (GD3), Dorin_198 (CG), DunneganBoMo_174 (FC), Ellewin_174 (FC), Emmetator_177 (FC), FloraSnap32_178 (FC), Francesca_200 (CG), FrostedClock_184 (FC), GoldenEssence_170 (FC), KSunshine22_180 (FC), LeoJr_186 (FC), Mimi_183 (FC), Nova53_211 (CG), Panchaali_176 (FC), Patbob_181 (FC), Phrampa_175 (FC), Racecar_184 (FC), ReginaGlobina_190 (FC), Stewart25555_176 (FC), Talia1610_184 (FC), Trina_214 (CE), WaddleDee_170 (FC),

Start 22:
• Found in 5 of 111 (4.5%) of genes in pham
• Manual Annotations of this start: 3 of 93
• Called 60.0% of time when present
• Phage (with cluster) where this start called: IUFootball_35 (AZ2), Liebe_35 (AZ2), Maureen_35 (AZ2),

Start 23:
• Found in 3 of 111 (2.7%) of genes in pham
• Manual Annotations of this start: 3 of 93
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Grayson_188 (CB), Peregrin_183 (CB), Weasels2_192 (CB),

Start 26:
• Found in 38 of 111 (34.2%) of genes in pham
• Manual Annotations of this start: 1 of 93

• Called 2.6% of time when present
• Phage (with cluster) where this start called: CliffHanger_29 (EB),

Summary by clusters:

There are 16 clusters represented in this pham: FP, GD1, GD2, UNK, GD4, CB, CG, CE, EB, FC, AZ, GD3, AZ1, AZ2, AZ3, AZ7,

Info for manual annotations of cluster AZ:
•Start number 18 was manually annotated 1 time for cluster AZ.

Info for manual annotations of cluster AZ1:
•Start number 18 was manually annotated 48 times for cluster AZ1.

Info for manual annotations of cluster AZ2:
•Start number 13 was manually annotated 1 time for cluster AZ2.
•Start number 22 was manually annotated 3 times for cluster AZ2.

Info for manual annotations of cluster AZ3:
•Start number 18 was manually annotated 2 times for cluster AZ3.

Info for manual annotations of cluster CB:
•Start number 23 was manually annotated 3 times for cluster CB.

Info for manual annotations of cluster CE:
•Start number 20 was manually annotated 1 time for cluster CE.

Info for manual annotations of cluster CG:
•Start number 20 was manually annotated 3 times for cluster CG.

Info for manual annotations of cluster EB:
•Start number 15 was manually annotated 3 times for cluster EB.
•Start number 17 was manually annotated 3 times for cluster EB.
•Start number 26 was manually annotated 1 time for cluster EB.

Info for manual annotations of cluster FC:
•Start number 20 was manually annotated 15 times for cluster FC.

Info for manual annotations of cluster FP:
•Start number 19 was manually annotated 2 times for cluster FP.

Info for manual annotations of cluster GD1:
•Start number 18 was manually annotated 3 times for cluster GD1.

Info for manual annotations of cluster GD2:
•Start number 18 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:
•Start number 20 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:
•Start number 18 was manually annotated 1 time for cluster GD4.

Gene Information:

Gene: A3Wally_221 Start: 119347, Stop: 119087, Start Num: 18
Candidate Starts for A3Wally_221:
(Start: 18 @119347 has 57 MA's), (33, 119239), (37, 119227), (51, 119140),

Gene: AEgle_31 Start: 24089, Stop: 24439, Start Num: 18
Candidate Starts for AEgle_31:
(7, 23912), (Start: 18 @24089 has 57 MA's), (25, 24131), (Start: 26 @24137 has 1 MA's), (50, 24344),

Gene: AGrandiflora_33 Start: 24317, Stop: 24667, Start Num: 18
Candidate Starts for AGrandiflora_33:
(Start: 18 @24317 has 57 MA's), (44, 24548), (50, 24572),

Gene: Adolin_31 Start: 22754, Stop: 23104, Start Num: 18
Candidate Starts for Adolin_31:
(Start: 18 @22754 has 57 MA's), (Start: 26 @22802 has 1 MA's), (35, 22913), (49, 23006),

Gene: Adumb2043_31 Start: 24088, Stop: 24438, Start Num: 18
Candidate Starts for Adumb2043_31:
(7, 23911), (Start: 18 @24088 has 57 MA's), (25, 24130), (Start: 26 @24136 has 1 MA's), (50, 24343),

Gene: AinMach_34 Start: 25278, Stop: 25565, Start Num: 18
Candidate Starts for AinMach_34:
(Start: 18 @25278 has 57 MA's), (47, 25494),

Gene: Amploria_31 Start: 24088, Stop: 24438, Start Num: 18
Candidate Starts for Amploria_31:
(7, 23911), (Start: 18 @24088 has 57 MA's), (25, 24130), (Start: 26 @24136 has 1 MA's), (50, 24343),

Gene: Amyev_32 Start: 26024, Stop: 26374, Start Num: 18
Candidate Starts for Amyev_32:
(7, 25835), (Start: 18 @26024 has 57 MA's), (Start: 26 @26072 has 1 MA's), (44, 26255),

Gene: Artu_175 Start: 120610, Stop: 120864, Start Num: 20
Candidate Starts for Artu_175:
(Start: 20 @120610 has 20 MA's), (45, 120787),

Gene: Asa16_33 Start: 26275, Stop: 26604, Start Num: 18
Candidate Starts for Asa16_33:
(Start: 18 @26275 has 57 MA's), (25, 26317), (35, 26413), (49, 26506),

Gene: Ascela_33 Start: 24466, Stop: 24795, Start Num: 18
Candidate Starts for Ascela_33:
(Start: 18 @24466 has 57 MA's), (Start: 26 @24514 has 1 MA's), (35, 24604), (49, 24697),

Gene: Atuin_177 Start: 122575, Stop: 122829, Start Num: 20
Candidate Starts for Atuin_177:
(Start: 20 @122575 has 20 MA's), (Start: 26 @122611 has 1 MA's), (45, 122752), (52, 122794),

Gene: BaileyBlu_33 Start: 24089, Stop: 24334, Start Num: 19
Candidate Starts for BaileyBlu_33:
(14, 24074), (Start: 19 @24089 has 2 MA's), (46, 24263),

Gene: Berrie_33 Start: 25350, Stop: 25679, Start Num: 18
Candidate Starts for Berrie_33:
(Start: 18 @25350 has 57 MA's), (Start: 26 @25398 has 1 MA's), (35, 25488), (49, 25581), (52, 25605),

Gene: Big4_206 Start: 115772, Stop: 115500, Start Num: 18
Candidate Starts for Big4_206:
(Start: 18 @115772 has 57 MA's), (33, 115649), (37, 115637), (53, 115526),

Gene: Bloom_187 Start: 122149, Stop: 122403, Start Num: 20
Candidate Starts for Bloom_187:
(Start: 20 @122149 has 20 MA's), (24, 122164), (45, 122326),

Gene: BooTeria_173 Start: 120032, Stop: 120286, Start Num: 20
Candidate Starts for BooTeria_173:
(Start: 20 @120032 has 20 MA's), (45, 120209),

Gene: Buldak_28 Start: 20601, Stop: 20870, Start Num: 17
Candidate Starts for Buldak_28:
(Start: 17 @20601 has 3 MA's), (Start: 26 @20652 has 1 MA's), (43, 20796), (45, 20802),

Gene: CallinAllBarbz_32 Start: 24070, Stop: 24306, Start Num: 19
Candidate Starts for CallinAllBarbz_32:
(6, 23860), (Start: 19 @24070 has 2 MA's), (Start: 26 @24109 has 1 MA's), (33, 24175), (46, 24250),

Gene: Cassia_33 Start: 24921, Stop: 25271, Start Num: 18
Candidate Starts for Cassia_33:
(Start: 18 @24921 has 57 MA's), (50, 25176),

Gene: Cece_197 Start: 120223, Stop: 119972, Start Num: 20
Candidate Starts for Cece_197:
(Start: 20 @120223 has 20 MA's), (30, 120166), (33, 120121), (37, 120109),

Gene: CliffHanger_29 Start: 20337, Stop: 20555, Start Num: 26
Candidate Starts for CliffHanger_29:
(Start: 17 @20292 has 3 MA's), (Start: 26 @20337 has 1 MA's), (28, 20355), (42, 20478),

Gene: Community_33 Start: 26474, Stop: 26803, Start Num: 18
Candidate Starts for Community_33:
(Start: 18 @26474 has 57 MA's), (Start: 26 @26522 has 1 MA's), (35, 26612),

Gene: Crewmate_36 Start: 25183, Stop: 25533, Start Num: 18
Candidate Starts for Crewmate_36:
(8, 25009), (Start: 18 @25183 has 57 MA's), (25, 25225), (Start: 26 @25231 has 1 MA's), (44, 25414),

Gene: Cyan_32 Start: 24399, Stop: 24749, Start Num: 18
Candidate Starts for Cyan_32:
(Start: 18 @24399 has 57 MA's), (50, 24654),

Gene: Dodo_217 Start: 119149, Stop: 118889, Start Num: 18
Candidate Starts for Dodo_217:
(Start: 18 @119149 has 57 MA's), (33, 119041), (37, 119029), (51, 118942),

Gene: Dorin_198 Start: 108945, Stop: 109226, Start Num: 20
Candidate Starts for Dorin_198:
(Start: 20 @108945 has 20 MA's),

Gene: DrManhattan_31 Start: 22745, Stop: 23095, Start Num: 18
Candidate Starts for DrManhattan_31:
(Start: 18 @22745 has 57 MA's), (Start: 26 @22793 has 1 MA's), (35, 22904), (49, 22997),

Gene: DrSierra_31 Start: 23230, Stop: 23580, Start Num: 18
Candidate Starts for DrSierra_31:
(Start: 18 @23230 has 57 MA's), (Start: 26 @23278 has 1 MA's), (44, 23461),

Gene: DunneganBoMo_174 Start: 119214, Stop: 119468, Start Num: 20
Candidate Starts for DunneganBoMo_174:
(Start: 20 @119214 has 20 MA's), (45, 119391),

Gene: Elezi_33 Start: 26291, Stop: 26620, Start Num: 18
Candidate Starts for Elezi_33:
(Start: 18 @26291 has 57 MA's), (25, 26333), (35, 26429), (49, 26522),

Gene: Ellewin_174 Start: 119388, Stop: 119642, Start Num: 20
Candidate Starts for Ellewin_174:
(Start: 20 @119388 has 20 MA's), (45, 119565),

Gene: Emmetator_177 Start: 119534, Stop: 119788, Start Num: 20
Candidate Starts for Emmetator_177:
(Start: 20 @119534 has 20 MA's), (45, 119711),

Gene: Eraser_33 Start: 26282, Stop: 26611, Start Num: 18
Candidate Starts for Eraser_33:
(Start: 18 @26282 has 57 MA's), (25, 26324), (35, 26420), (49, 26513),

Gene: Erasmago_210 Start: 114028, Stop: 113756, Start Num: 18
Candidate Starts for Erasmago_210:
(Start: 18 @114028 has 57 MA's), (34, 113899), (37, 113893),

Gene: FloraSnap32_178 Start: 120480, Stop: 120734, Start Num: 20
Candidate Starts for FloraSnap32_178:
(Start: 20 @120480 has 20 MA's), (24, 120495), (45, 120657),

Gene: Flutur_32 Start: 24629, Stop: 24979, Start Num: 18
Candidate Starts for Flutur_32:
(Start: 18 @24629 has 57 MA's), (44, 24860), (50, 24884),

Gene: Francesca_200 Start: 109865, Stop: 110146, Start Num: 20
Candidate Starts for Francesca_200:
(Start: 20 @109865 has 20 MA's),

Gene: FrostedClock_184 Start: 122724, Stop: 122978, Start Num: 20

Candidate Starts for FrostedClock_184:
(Start: 20 @122724 has 20 MA's), (24, 122739), (45, 122901),

Gene: GoldenEssence_170 Start: 115722, Stop: 115976, Start Num: 20
Candidate Starts for GoldenEssence_170:
(Start: 20 @115722 has 20 MA's), (24, 115737), (45, 115899),

Gene: Grayson_188 Start: 98685, Stop: 98954, Start Num: 23
Candidate Starts for Grayson_188:
(21, 98676), (Start: 23 @98685 has 3 MA's), (31, 98739), (32, 98781), (36, 98796), (39, 98814), (41, 98823), (55, 98925),

Gene: IUFootball_35 Start: 26482, Stop: 26733, Start Num: 22
Candidate Starts for IUFootball_35:
(Start: 22 @26482 has 3 MA's), (27, 26515),

Gene: Iter_33 Start: 24465, Stop: 24794, Start Num: 18
Candidate Starts for Iter_33:
(Start: 18 @24465 has 57 MA's), (Start: 26 @24513 has 1 MA's), (35, 24603), (49, 24696),

Gene: IttyBittyPiggy_32 Start: 24503, Stop: 24853, Start Num: 18
Candidate Starts for IttyBittyPiggy_32:
(Start: 18 @24503 has 57 MA's), (54, 24791),

Gene: Janeemi_34 Start: 26490, Stop: 26819, Start Num: 18
Candidate Starts for Janeemi_34:
(Start: 18 @26490 has 57 MA's), (25, 26532), (Start: 26 @26538 has 1 MA's), (35, 26628), (48, 26718),

Gene: Joemato_32 Start: 24402, Stop: 24752, Start Num: 18
Candidate Starts for Joemato_32:
(Start: 18 @24402 has 57 MA's), (44, 24633), (50, 24657),

Gene: JohnDoe_32 Start: 24393, Stop: 24743, Start Num: 18
Candidate Starts for JohnDoe_32:
(5, 24102), (9, 24216), (Start: 18 @24393 has 57 MA's), (44, 24624), (50, 24648),

Gene: Jstan_35 Start: 26276, Stop: 26605, Start Num: 18
Candidate Starts for Jstan_35:
(Start: 18 @26276 has 57 MA's), (25, 26318), (35, 26414), (49, 26507),

Gene: JuneStar_32 Start: 26409, Stop: 26759, Start Num: 18
Candidate Starts for JuneStar_32:
(Start: 18 @26409 has 57 MA's), (44, 26640), (50, 26664),

Gene: KSunshine22_180 Start: 121028, Stop: 121282, Start Num: 20
Candidate Starts for KSunshine22_180:
(Start: 20 @121028 has 20 MA's), (Start: 26 @121064 has 1 MA's), (45, 121205), (52, 121247),

Gene: Kaylissa_32 Start: 24365, Stop: 24715, Start Num: 18
Candidate Starts for Kaylissa_32:
(Start: 18 @24365 has 57 MA's), (44, 24596),

Gene: KeAlii_32 Start: 24404, Stop: 24733, Start Num: 18

Candidate Starts for KeAlii_32:
(Start: 18 @24404 has 57 MA's), (Start: 26 @24452 has 1 MA's), (35, 24542), (49, 24635), (51, 24641),

Gene: Laure_184 Start: 113724, Stop: 114068, Start Num: 11
Candidate Starts for Laure_184:
(11, 113724), (12, 113751), (45, 113991),

Gene: Lego_32 Start: 24319, Stop: 24669, Start Num: 18
Candidate Starts for Lego_32:
(Start: 18 @24319 has 57 MA's), (44, 24550), (50, 24574),

Gene: LeoJr_186 Start: 123129, Stop: 123383, Start Num: 20
Candidate Starts for LeoJr_186:
(Start: 20 @123129 has 20 MA's), (Start: 26 @123165 has 1 MA's), (45, 123306), (52, 123348),

Gene: Liebe_35 Start: 26482, Stop: 26733, Start Num: 22
Candidate Starts for Liebe_35:
(Start: 22 @26482 has 3 MA's), (27, 26515),

Gene: Lizalica_31 Start: 24193, Stop: 24543, Start Num: 18
Candidate Starts for Lizalica_31:
(Start: 18 @24193 has 57 MA's), (25, 24235), (50, 24448),

Gene: London_33 Start: 26291, Stop: 26620, Start Num: 18
Candidate Starts for London_33:
(Start: 18 @26291 has 57 MA's), (25, 26333), (35, 26429), (49, 26522),

Gene: MaGuCo_33 Start: 25302, Stop: 25580, Start Num: 13
Candidate Starts for MaGuCo_33:
(Start: 13 @25302 has 1 MA's), (Start: 22 @25329 has 3 MA's), (27, 25362), (35, 25428),

Gene: Maureen_35 Start: 26482, Stop: 26733, Start Num: 22
Candidate Starts for Maureen_35:
(Start: 22 @26482 has 3 MA's), (27, 26515),

Gene: Mimi_183 Start: 121776, Stop: 122030, Start Num: 20
Candidate Starts for Mimi_183:
(Start: 20 @121776 has 20 MA's), (24, 121791), (45, 121953),

Gene: MissSwiss_31 Start: 22798, Stop: 23148, Start Num: 18
Candidate Starts for MissSwiss_31:
(Start: 18 @22798 has 57 MA's), (Start: 26 @22846 has 1 MA's), (35, 22957), (49, 23050),

Gene: Mudpuppy_31 Start: 24182, Stop: 24532, Start Num: 18
Candidate Starts for Mudpuppy_31:
(Start: 18 @24182 has 57 MA's),

Gene: Niobe_33 Start: 26276, Stop: 26605, Start Num: 18
Candidate Starts for Niobe_33:
(Start: 18 @26276 has 57 MA's), (25, 26318), (35, 26414), (49, 26507),

Gene: Nitro_32 Start: 25590, Stop: 25919, Start Num: 18
Candidate Starts for Nitro_32:

(Start: 18 @25590 has 57 MA's), (25, 25632), (Start: 26 @25638 has 1 MA's), (35, 25728),

Gene: Nova53_211 Start: 113820, Stop: 114104, Start Num: 20
Candidate Starts for Nova53_211:
(Start: 20 @113820 has 20 MA's), (41, 113967),

Gene: ObiToo_35 Start: 24923, Stop: 25273, Start Num: 18
Candidate Starts for ObiToo_35:
(8, 24749), (Start: 18 @24923 has 57 MA's), (25, 24965), (Start: 26 @24971 has 1 MA's), (44, 25154),

Gene: Olliecat_28 Start: 20581, Stop: 20850, Start Num: 17
Candidate Starts for Olliecat_28:
(Start: 17 @20581 has 3 MA's), (Start: 26 @20632 has 1 MA's), (43, 20776), (45, 20782), (49, 20800),

Gene: Panchaali_176 Start: 120271, Stop: 120525, Start Num: 20
Candidate Starts for Panchaali_176:
(Start: 20 @120271 has 20 MA's), (45, 120448),

Gene: PandaPo_31 Start: 22801, Stop: 23151, Start Num: 18
Candidate Starts for PandaPo_31:
(Start: 18 @22801 has 57 MA's), (Start: 26 @22849 has 1 MA's), (35, 22960), (49, 23053),

Gene: Patbob_181 Start: 122338, Stop: 122592, Start Num: 20
Candidate Starts for Patbob_181:
(Start: 20 @122338 has 20 MA's), (24, 122353), (45, 122515),

Gene: PauloDiaboli_221 Start: 117560, Stop: 117300, Start Num: 18
Candidate Starts for PauloDiaboli_221:
(Start: 18 @117560 has 57 MA's), (33, 117452), (37, 117440), (51, 117353),

Gene: Peregrin_183 Start: 97131, Stop: 97400, Start Num: 23
Candidate Starts for Peregrin_183:
(21, 97122), (Start: 23 @97131 has 3 MA's), (31, 97185), (32, 97227), (36, 97242), (41, 97269), (55, 97371),

Gene: Phives_34 Start: 26311, Stop: 26640, Start Num: 18
Candidate Starts for Phives_34:
(Start: 18 @26311 has 57 MA's), (Start: 26 @26359 has 1 MA's), (35, 26449),

Gene: Phrampa_175 Start: 123930, Stop: 124184, Start Num: 20
Candidate Starts for Phrampa_175:
(Start: 20 @123930 has 20 MA's), (45, 124107),

Gene: Pixelle_32 Start: 26044, Stop: 26394, Start Num: 18
Candidate Starts for Pixelle_32:
(7, 25855), (Start: 18 @26044 has 57 MA's), (Start: 26 @26092 has 1 MA's), (44, 26275),

Gene: Powerpuff_34 Start: 25514, Stop: 25864, Start Num: 18
Candidate Starts for Powerpuff_34:
(Start: 18 @25514 has 57 MA's),

Gene: Pumpernickel_203 Start: 117028, Stop: 116777, Start Num: 18
Candidate Starts for Pumpernickel_203:

(Start: 18 @117028 has 57 MA's), (Start: 20 @117019 has 20 MA's), (29, 116980), (31, 116962),

Gene: Pumpkins_32 Start: 25142, Stop: 25492, Start Num: 18
Candidate Starts for Pumpkins_32:
(Start: 18 @25142 has 57 MA's),

Gene: Racecar_184 Start: 122742, Stop: 122996, Start Num: 20
Candidate Starts for Racecar_184:
(Start: 20 @122742 has 20 MA's), (24, 122757), (45, 122919),

Gene: ReginaGlobina_190 Start: 124398, Stop: 124652, Start Num: 20
Candidate Starts for ReginaGlobina_190:
(Start: 20 @124398 has 20 MA's), (Start: 26 @124434 has 1 MA's), (45, 124575), (52, 124617),

Gene: Schaffner_32 Start: 25370, Stop: 25720, Start Num: 18
Candidate Starts for Schaffner_32:
(Start: 18 @25370 has 57 MA's), (Start: 26 @25418 has 1 MA's), (44, 25601), (50, 25625),

Gene: Shayna_26 Start: 20524, Stop: 20787, Start Num: 15
Candidate Starts for Shayna_26:
(10, 20443), (Start: 15 @20524 has 3 MA's), (28, 20587), (42, 20710),

Gene: Simpson_34 Start: 24402, Stop: 24752, Start Num: 18
Candidate Starts for Simpson_34:
(Start: 18 @24402 has 57 MA's), (44, 24633), (50, 24657),

Gene: Skelbel_34 Start: 26276, Stop: 26605, Start Num: 18
Candidate Starts for Skelbel_34:
(Start: 18 @26276 has 57 MA's), (25, 26318), (35, 26414), (49, 26507),

Gene: Snek_32 Start: 23329, Stop: 23622, Start Num: 18
Candidate Starts for Snek_32:
(Start: 18 @23329 has 57 MA's), (Start: 26 @23374 has 1 MA's), (35, 23464), (48, 23554),

Gene: Squircle_28 Start: 20580, Stop: 20849, Start Num: 17
Candidate Starts for Squircle_28:
(Start: 17 @20580 has 3 MA's), (Start: 26 @20631 has 1 MA's), (43, 20775), (45, 20781), (49, 20799),

Gene: Stewart25555_176 Start: 121983, Stop: 122240, Start Num: 20
Candidate Starts for Stewart25555_176:
(16, 121965), (Start: 20 @121983 has 20 MA's), (Start: 26 @122022 has 1 MA's), (45, 122163),

Gene: Subaru_33 Start: 26291, Stop: 26620, Start Num: 18
Candidate Starts for Subaru_33:
(Start: 18 @26291 has 57 MA's), (25, 26333), (35, 26429), (49, 26522),

Gene: Sue2_33 Start: 25042, Stop: 25371, Start Num: 18
Candidate Starts for Sue2_33:
(Start: 18 @25042 has 57 MA's), (35, 25180), (49, 25273),

Gene: SunnyD_26 Start: 20566, Stop: 20829, Start Num: 15
Candidate Starts for SunnyD_26:
(10, 20485), (Start: 15 @20566 has 3 MA's), (28, 20629), (42, 20752),

Gene: Talia1610_184 Start: 122159, Stop: 122413, Start Num: 20
Candidate Starts for Talia1610_184:
(Start: 20 @122159 has 20 MA's), (24, 122174), (45, 122336),

Gene: Tallboi_32 Start: 25621, Stop: 25971, Start Num: 18
Candidate Starts for Tallboi_32:
(Start: 18 @25621 has 57 MA's), (44, 25852), (50, 25876),

Gene: Tbone_31 Start: 24197, Stop: 24547, Start Num: 18
Candidate Starts for Tbone_31:
(Start: 18 @24197 has 57 MA's),

Gene: Teagster_28 Start: 21485, Stop: 21748, Start Num: 15
Candidate Starts for Teagster_28:
(4, 21176), (10, 21404), (Start: 15 @21485 has 3 MA's), (28, 21548), (42, 21671),

Gene: TforTroy_33 Start: 25014, Stop: 25364, Start Num: 18
Candidate Starts for TforTroy_33:
(1, 24204), (2, 24279), (3, 24594), (Start: 18 @25014 has 57 MA's),

Gene: ThursdayNight_37 Start: 26145, Stop: 26447, Start Num: 18
Candidate Starts for ThursdayNight_37:
(Start: 18 @26145 has 57 MA's), (33, 26268), (35, 26277), (38, 26301),

Gene: Tian_32 Start: 26024, Stop: 26374, Start Num: 18
Candidate Starts for Tian_32:
(7, 25835), (Start: 18 @26024 has 57 MA's), (Start: 26 @26072 has 1 MA's), (44, 26255),

Gene: Trina_214 Start: 114781, Stop: 115047, Start Num: 20
Candidate Starts for Trina_214:
(Start: 20 @114781 has 20 MA's), (24, 114796), (40, 114913),

Gene: Tuck_35 Start: 26855, Stop: 27184, Start Num: 18
Candidate Starts for Tuck_35:
(Start: 18 @26855 has 57 MA's), (Start: 26 @26903 has 1 MA's), (35, 26993),

Gene: Turab_31 Start: 24088, Stop: 24438, Start Num: 18
Candidate Starts for Turab_31:
(7, 23911), (Start: 18 @24088 has 57 MA's), (25, 24130), (Start: 26 @24136 has 1 MA's), (50, 24343),

Gene: Tutumahutu_32 Start: 24369, Stop: 24719, Start Num: 18
Candidate Starts for Tutumahutu_32:
(Start: 18 @24369 has 57 MA's), (44, 24600), (50, 24624),

Gene: Tweety19_32 Start: 23328, Stop: 23621, Start Num: 18
Candidate Starts for Tweety19_32:
(Start: 18 @23328 has 57 MA's), (Start: 26 @23373 has 1 MA's), (35, 23463), (48, 23553),

Gene: VResidence_32 Start: 24360, Stop: 24689, Start Num: 18
Candidate Starts for VResidence_32:
(Start: 18 @24360 has 57 MA's), (35, 24498), (49, 24591), (52, 24615), (54, 24627),

Gene: WaddleDee_170 Start: 118487, Stop: 118741, Start Num: 20
Candidate Starts for WaddleDee_170:
(Start: 20 @118487 has 20 MA's), (45, 118664),

Gene: Warda_32 Start: 24373, Stop: 24723, Start Num: 18
Candidate Starts for Warda_32:
(Start: 18 @24373 has 57 MA's), (Start: 22 @24388 has 3 MA's),

Gene: Weasels2_192 Start: 102336, Stop: 102605, Start Num: 23
Candidate Starts for Weasels2_192:
(21, 102327), (Start: 23 @102336 has 3 MA's), (43, 102507), (55, 102576),

Gene: Wildwest_32 Start: 24171, Stop: 24521, Start Num: 18
Candidate Starts for Wildwest_32:
(Start: 18 @24171 has 57 MA's), (Start: 26 @24219 has 1 MA's),

Gene: Yang_32 Start: 24514, Stop: 24864, Start Num: 18
Candidate Starts for Yang_32:
(Start: 18 @24514 has 57 MA's), (Start: 26 @24562 has 1 MA's), (50, 24769),

Gene: YesChef_32 Start: 24373, Stop: 24723, Start Num: 18
Candidate Starts for YesChef_32:
(Start: 18 @24373 has 57 MA's),

Gene: Zooman_187 Start: 111993, Stop: 111724, Start Num: 18
Candidate Starts for Zooman_187:
(Start: 18 @111993 has 57 MA's), (33, 111873), (37, 111861), (53, 111750),