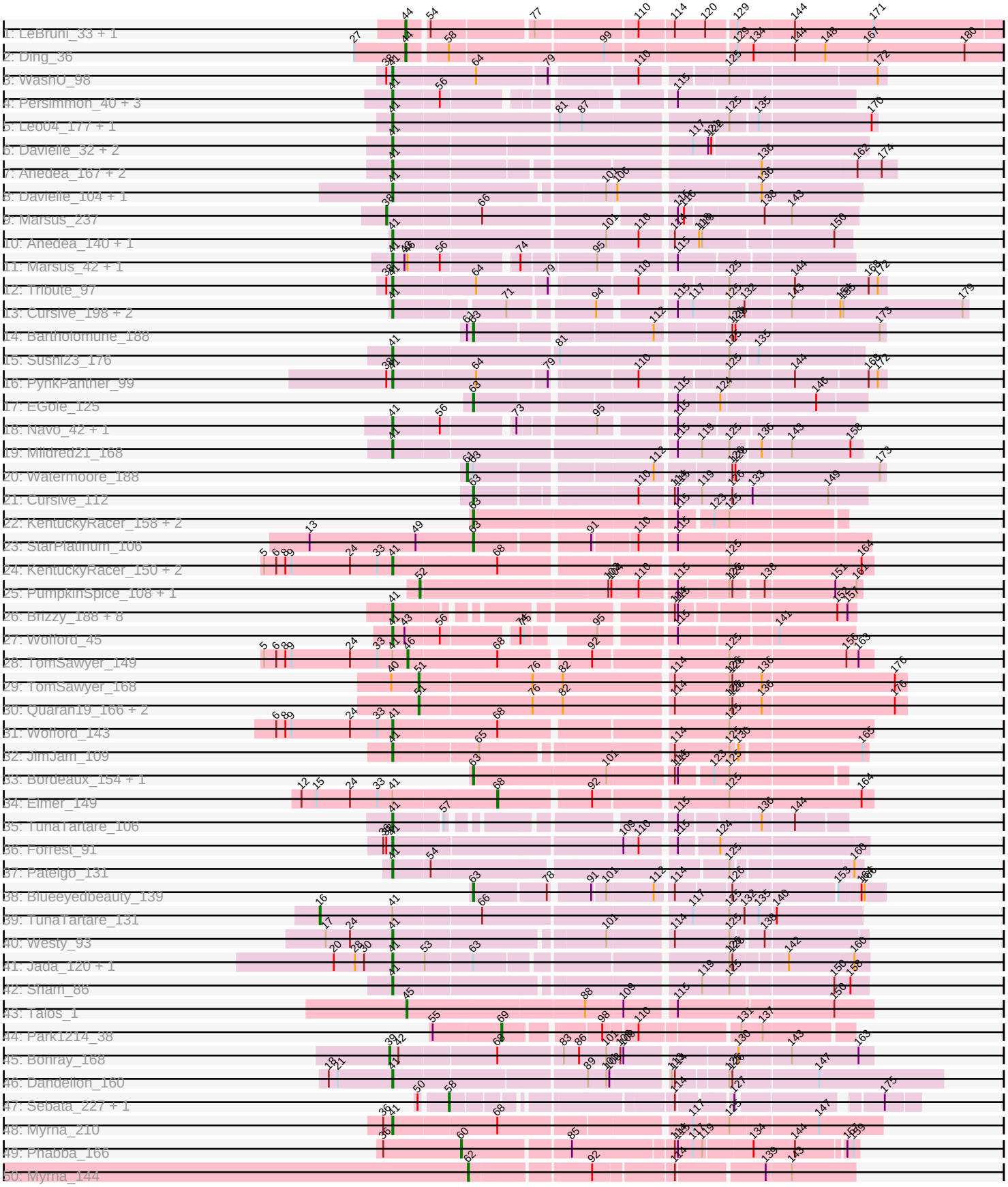
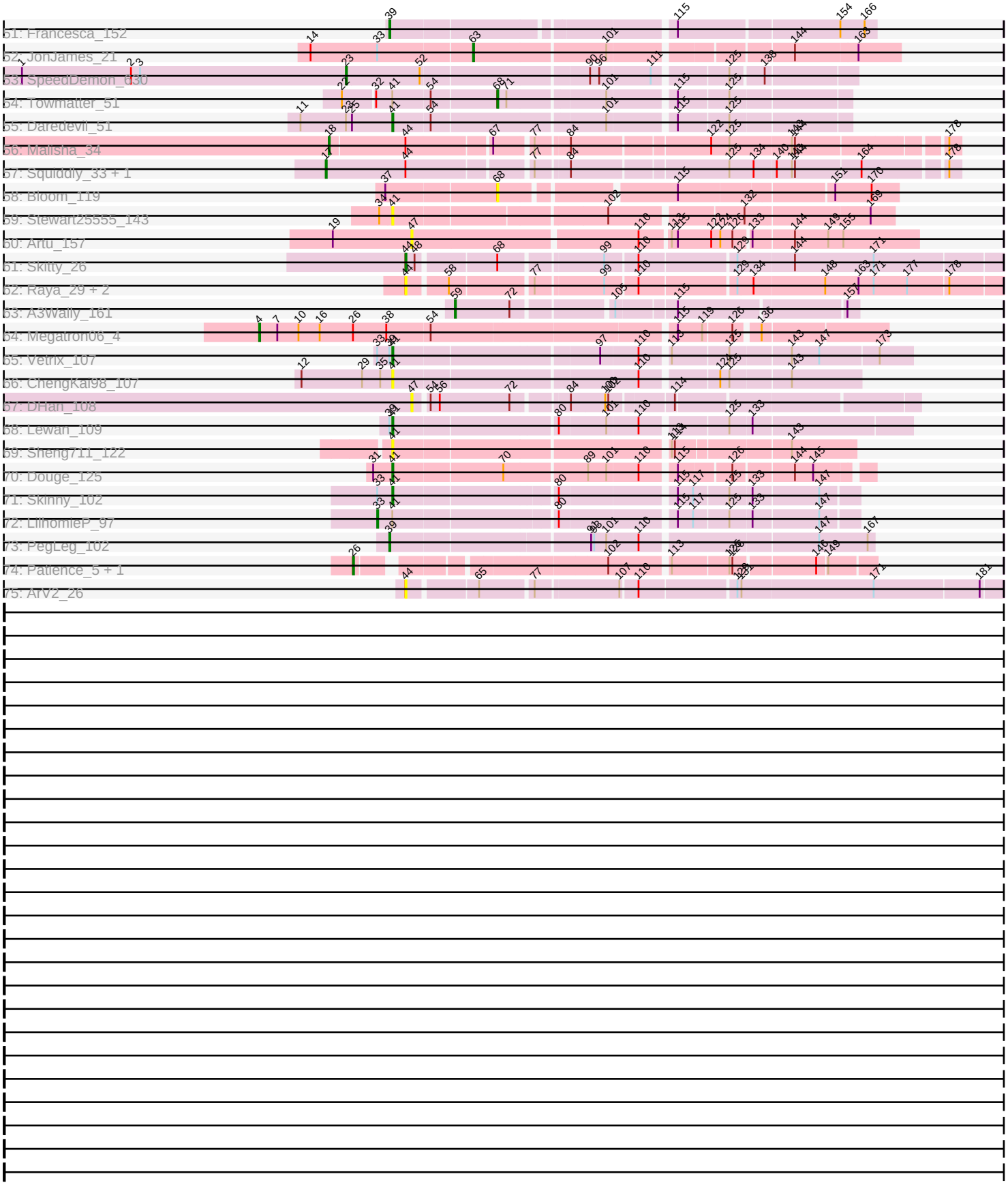
Pham 330661


1: LeBruni_33 + 1
2: Ding_36
3: WashO_98
4: Persimmon_40 + 3
5: Leo04_177 + 1
6: Davielle_32 + 2
7: Anedea_167 + 2
8: Davielle_104 + 1
9: Marsus_237
10: Anedea_140 + 1
11: Marsus_42 + 1
12: Tribute_97
13: Cursive_198 + 2
14: Bartholomune_188
15: Sushi23_176
16: PynkPanther_99
17: EGole_125
18: Navo_42 + 1
19: Mildred21_168
20: Watermoore_188
21: Cursive_112
22: KentuckyRacer_158 + 2
23: StarPlatinum_106
24: KentuckyRacer_150 + 2
25: PumpkinSpice_108 + 1
26: Brizzy_188 + 8
27: Wofford_45
28: TomSawyer_149
29: TomSawyer_168
30: Quaran19_166 + 2
31: Wofford_143
32: JimJam_109
33: Bordeaux_154 + 1
34: Elmer_149
35: TunaTartare_106
36: Forrest_91
37: Patelgo_131
38: Blueeyedbeauty_139
39: TunaTartare_131
40: Westy_93
41: Jada_120 + 1
42: Sham_86
43: Talos_1
44: Park1214_38
45: Bonray_168
46: Dandelion_160
47: Sebata_227 + 1
48: Myrna_210
49: Phabba_166
50: Myrna_144

Pham 330661


51: Francesca_152
52: JonJames_21
53: SpeedDemon_630
54: Towmatter_51
55: Daredevil_51
56: Malisha_34
57: Squiddly_33 + 1
58: Bloom_119
59: Stewart25555_143
60: Artu_157
61: Skitty_26
62: Raya_29 + 2
63: A3Wally_161
64: Megatron06_4
65: Vetrix_107
66: ChengKai98_107
67: DHan_108
68: Lewan_109
69: Sheng711_122
70: Douge_125
71: Skinny_102
72: LilnomieP_97
73: PegLeg_102
74: Patience_5 + 1
75: Arv2_26

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 330661 Report

This analysis was run 09/05/26 on database version 662.

Pham number 330661 has 112 members, 13 are drafts.

Phages represented in each track:
- Track 1 : LeBruni_33, Phrank15_33
- Track 2 : Ding_36
- Track 3 : WashU_98
- Track 4 : Persimmon_40, Davielle_41, WhereRU_41, Leo04_45
- Track 5 : Leo04_177, Paradiddles_170
- Track 6 : Davielle_32, PynkPanther_33, WhereRU_32
- Track 7 : Anedea_167, Riptide_160, Wofford_171
- Track 8 : Davielle_104, WhereRU_103
- Track 9 : Marsus_237
- Track 10 : Anedea_140, Mildred21_142
- Track 11 : Marsus_42, Anedea_42
- Track 12 : Tribute_97
- Track 13 : Cursive_198, ArianaSWT_208, Cadmus_194
- Track 14 : Bartholomune_188
- Track 15 : Sushi23_176
- Track 16 : PynkPanther_99
- Track 17 : EGole_125
- Track 18 : Navo_42, Braelyn_43
- Track 19 : Mildred21_168
- Track 20 : Watermoore_188
- Track 21 : Cursive_112
- Track 22 : KentuckyRacer_158, StarPlatinum_159, MulchMansion_147
- Track 23 : StarPlatinum_106
- Track 24 : KentuckyRacer_150, CeilingFan_148, JimJam_152
- Track 25 : PumpkinSpice_108, Daisy123_112
- Track 26 : Brizzy_188, JimJam_195, KentuckyRacer_193, IchabodCrane_184, TomSawyer_193, Amabiko_192, Wipeout_181, Spilled_194, Mugiwara_190
- Track 27 : Wofford_45
- Track 28 : TomSawyer_149
- Track 29 : TomSawyer_168
- Track 30 : Quaran19_166, Brizzy_163, Enygma_167
- Track 31 : Wofford_143
- Track 32 : JimJam_109
- Track 33 : Bordeaux_154, AcciDwight_163
- Track 34 : Elmer_149
- Track 35 : TunaTartare_106
- Track 36 : Forrest_91

• Track 37 : Patelgo_131
• Track 38 : Blueeyedbeauty_139
• Track 39 : TunaTartare_131
• Track 40 : Westy_93
• Track 41 : Jada_120, Forrest_124
• Track 42 : Sham_86
• Track 43 : Talos_1
• Track 44 : Park1214_38
• Track 45 : Bonray_168
• Track 46 : Dandelion_160
• Track 47 : Sebata_227, Salacia_226
• Track 48 : Myrna_210
• Track 49 : Phabba_166
• Track 50 : Myrna_144
• Track 51 : Francesca_152
• Track 52 : JonJames_21
• Track 53 : SpeedDemon_630
• Track 54 : Towmatter_51
• Track 55 : Daredevil_51
• Track 56 : Malisha_34
• Track 57 : Squiddly_33, Spooky_31
• Track 58 : Bloom_119
• Track 59 : Stewart25555_143
• Track 60 : Artu_157
• Track 61 : Skitty_26
• Track 62 : Raya_29, Skyerus_29, Neroxid_29
• Track 63 : A3Wally_161
• Track 64 : Megatron06_4
• Track 65 : Vetrix_107
• Track 66 : ChengKai98_107
• Track 67 : DHan_108
• Track 68 : Lewan_109
• Track 69 : Sheng711_122
• Track 70 : Douge_125
• Track 71 : Skinny_102
• Track 72 : LilhomieP_97
• Track 73 : PegLeg_102
• Track 74 : Patience_5, Labelle_5
• Track 75 : ArV2_26

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

The start number called the most often in the published annotations is 41, it was called in 56 of the 99 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Amabiko_192, Anedea_140, Anedea_167, Anedea_42, ArianaSWT_208, Braelyn_43, Brizzy_188, Cadmus_194, CeilingFan_148, ChengKai98_107, Cursive_198, Dandelion_160, Daredevil_51, Davielle_104, Davielle_32, Davielle_41, Douge_125, Forrest_124, Forrest_91, IchabodCrane_184, Jada_120, JimJam_109,

JimJam_152, JimJam_195, KentuckyRacer_150, KentuckyRacer_193, Leo04_177, Leo04_45, Lewan_109, Marsus_42, Mildred21_142, Mildred21_168, Mugiwara_190, Myrna_210, Navo_42, Paradiddles_170, Patelgo_131, Persimmon_40, PynkPanther_33, PynkPanther_99, Riptide_160, Sham_86, Sheng711_122, Skinny_102, Spilled_194, Stewart25555_143, Sushi23_176, TomSawyer_193, Tribute_97, TunaTartare_106, Vetrix_107, WashU_98, Westy_93, WhereRU_103, WhereRU_32, WhereRU_41, Wipeout_181, Wofford_143, Wofford_171, Wofford_45,

Genes that have the "Most Annotated" start but do not call it:
• Elmer_149, LilhomieP_97, TomSawyer_149, Towmatter_51, TunaTartare_131,

Genes that do not have the "Most Annotated" start:
• A3Wally_161, AcciDwight_163, ArV2_26, Artu_157, Bartholomune_188, Bloom_119, Blueeyedbeauty_139, Bonray_168, Bordeaux_154, Brizzy_163, Cursive_112, DHan_108, Daisy123_112, Ding_36, EGole_125, Enygma_167, Francesca_152, JonJames_21, KentuckyRacer_158, Labelle_5, LeBruni_33, Malisha_34, Marsus_237, Megatron06_4, MulchMansion_147, Myrna_144, Neroxid_29, Park1214_38, Patience_5, PegLeg_102, Phabba_166, Phrank15_33, PumpkinSpice_108, Quaran19_166, Raya_29, Salacia_226, Sebata_227, Skitty_26, Skyerus_29, SpeedDemon_630, Spooky_31, Squiddly_33, StarPlatinum_106, StarPlatinum_159, Talos_1, TomSawyer_168, Watermoore_188,

Summary by start number:

Start 4:
• Found in 1 of 112 (0.9%) of genes in pham
• Manual Annotations of this start: 1 of 99
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Megatron06_4 (H1),

Start 16:
• Found in 2 of 112 (1.8%) of genes in pham
• Manual Annotations of this start: 1 of 99
• Called 50.0% of time when present
• Phage (with cluster) where this start called: TunaTartare_131 (BK1),

Start 17:
• Found in 3 of 112 (2.7%) of genes in pham
• Manual Annotations of this start: 2 of 99
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Spooky_31 (DN2), Squiddly_33 (DN2),

Start 18:
• Found in 2 of 112 (1.8%) of genes in pham
• Manual Annotations of this start: 1 of 99
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Malisha_34 (DN),

Start 23:
• Found in 2 of 112 (1.8%) of genes in pham
• Manual Annotations of this start: 1 of 99
• Called 50.0% of time when present
• Phage (with cluster) where this start called: SpeedDemon_630 (DL),

Start 26:
• Found in 3 of 112 (2.7%) of genes in pham
• Manual Annotations of this start: 2 of 99
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Labelle_5 (U), Patience_5 (U),

Start 33:
• Found in 10 of 112 (8.9%) of genes in pham
• Manual Annotations of this start: 1 of 99
• Called 10.0% of time when present
• Phage (with cluster) where this start called: LilhomieP_97 (M1),

Start 38:
• Found in 6 of 112 (5.4%) of genes in pham
• Manual Annotations of this start: 1 of 99
• Called 16.7% of time when present
• Phage (with cluster) where this start called: Marsus_237 (BE1),

Start 39:
• Found in 5 of 112 (4.5%) of genes in pham
• Manual Annotations of this start: 3 of 99
• Called 60.0% of time when present
• Phage (with cluster) where this start called: Bonray_168 (C1), Francesca_152 (CG), PegLeg_102 (M1),

Start 41:
• Found in 65 of 112 (58.0%) of genes in pham
• Manual Annotations of this start: 56 of 99
• Called 92.3% of time when present
• Phage (with cluster) where this start called: Amabiko_192 (BE2), Anedea_140 (BE1), Anedea_167 (BE1), Anedea_42 (BE1), ArianaSWT_208 (BE1), Braelyn_43 (BE1), Brizzy_188 (BE2), Cadmus_194 (BE1), CeilingFan_148 (BE2), ChengKai98_107 (L2), Cursive_198 (BE1), Dandelion_160 (C1), Daredevil_51 (DL), Davielle_104 (BE1), Davielle_32 (BE1), Davielle_41 (BE1), Douge_125 (L4), Forrest_124 (BK1), Forrest_91 (BK1), IchabodCrane_184 (BE2), Jada_120 (BK1), JimJam_109 (BE2), JimJam_152 (BE2), JimJam_195 (BE2), KentuckyRacer_150 (BE2), KentuckyRacer_193 (BE2), Leo04_177 (BE1), Leo04_45 (BE1), Lewan_109 (L2), Marsus_42 (BE1), Mildred21_142 (BE1), Mildred21_168 (BE1), Mugiwara_190 (BE2), Myrna_210 (C2), Navo_42 (BE1), Paradiddles_170 (BE1), Patelgo_131 (BK1), Persimmon_40 (BE1), PynkPanther_33 (BE1), PynkPanther_99 (BE1), Riptide_160 (BE1), Sham_86 (BK1), Sheng711_122 (L4), Skinny_102 (M1), Spilled_194 (BE2), Stewart25555_143 (FC), Sushi23_176 (BE1), TomSawyer_193 (BE2), Tribute_97 (BE1), TunaTartare_106 (BK1), Vetrix_107 (L2), WashU_98 (BE1), Westy_93 (BK1), WhereRU_103 (BE1), WhereRU_32 (BE1), WhereRU_41 (BE1), Wipeout_181 (BE2), Wofford_143 (BE2), Wofford_171 (BE2), Wofford_45 (BE2),

Start 44:
• Found in 11 of 112 (9.8%) of genes in pham
• Manual Annotations of this start: 4 of 99
• Called 72.7% of time when present
• Phage (with cluster) where this start called: ArV2_26 (singleton), Ding_36 (AY), LeBruni_33 (AY), Neroxid_29 (FQ2), Phrank15_33 (AY), Raya_29 (FQ2), Skitty_26

(FQ1), Skyerus_29 (FQ2),

Start 45:
• Found in 1 of 112 (0.9%) of genes in pham
• Manual Annotations of this start: 1 of 99
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Talos_1 (BS),

Start 46:
• Found in 3 of 112 (2.7%) of genes in pham
• Manual Annotations of this start: 1 of 99
• Called 33.3% of time when present
• Phage (with cluster) where this start called: TomSawyer_149 (BE2),

Start 47:
• Found in 2 of 112 (1.8%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Artu_157 (FC), DHan_108 (L2),

Start 51:
• Found in 4 of 112 (3.6%) of genes in pham
• Manual Annotations of this start: 4 of 99
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Brizzy_163 (BE2), Enygma_167 (BE2), Quaran19_166 (BE2), TomSawyer_168 (BE2),

Start 52:
• Found in 3 of 112 (2.7%) of genes in pham
• Manual Annotations of this start: 1 of 99
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Daisy123_112 (BE2), PumpkinSpice_108 (BE2),

Start 58:
• Found in 6 of 112 (5.4%) of genes in pham
• Manual Annotations of this start: 2 of 99
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Salacia_226 (C1), Sebata_227 (C1),

Start 59:
• Found in 1 of 112 (0.9%) of genes in pham
• Manual Annotations of this start: 1 of 99
• Called 100.0% of time when present
• Phage (with cluster) where this start called: A3Wally_161 (GD1),

Start 60:
• Found in 1 of 112 (0.9%) of genes in pham
• Manual Annotations of this start: 1 of 99
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Phabba_166 (C2),

Start 61:

• Found in 2 of 112 (1.8%) of genes in pham
• Manual Annotations of this start: 1 of 99
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Watermoore_188 (BE1),

Start 62:
• Found in 1 of 112 (0.9%) of genes in pham
• Manual Annotations of this start: 1 of 99
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Myrna_144 (C2),

Start 63:
• Found in 14 of 112 (12.5%) of genes in pham
• Manual Annotations of this start: 10 of 99
• Called 78.6% of time when present
• Phage (with cluster) where this start called: AcciDwight_163 (BE2), Bartholomune_188 (BE1), Blueeyedbeauty_139 (BK1), Bordeaux_154 (BE2), Cursive_112 (BE1), EGole_125 (BE1), JonJames_21 (DD), KentuckyRacer_158 (BE2), MulchMansion_147 (BE1), StarPlatinum_106 (BE2), StarPlatinum_159 (BE2),

Start 68:
• Found in 11 of 112 (9.8%) of genes in pham
• Manual Annotations of this start: 2 of 99
• Called 27.3% of time when present
• Phage (with cluster) where this start called: Bloom_119 (FC), Elmer_149 (BE2), Towmatter_51 (DL),

Start 69:
• Found in 1 of 112 (0.9%) of genes in pham
• Manual Annotations of this start: 1 of 99
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Park1214_38 (BS),

Summary by clusters:

There are 22 clusters represented in this pham: DN, GD1, DL, DD, singleton, FC, M1, BS, DN2, C2, C1, CG, BE2, L4, L2, BK1, AY, BE1, H1, FQ2, U, FQ1,

Info for manual annotations of cluster AY:
•Start number 44 was manually annotated 3 times for cluster AY.

Info for manual annotations of cluster BE1:
•Start number 38 was manually annotated 1 time for cluster BE1.
•Start number 41 was manually annotated 26 times for cluster BE1.
•Start number 61 was manually annotated 1 time for cluster BE1.
•Start number 63 was manually annotated 4 times for cluster BE1.

Info for manual annotations of cluster BE2:
•Start number 41 was manually annotated 16 times for cluster BE2.
•Start number 46 was manually annotated 1 time for cluster BE2.
•Start number 51 was manually annotated 4 times for cluster BE2.
•Start number 52 was manually annotated 1 time for cluster BE2.
•Start number 63 was manually annotated 4 times for cluster BE2.

•Start number 68 was manually annotated 1 time for cluster BE2.

Info for manual annotations of cluster BK1:
•Start number 16 was manually annotated 1 time for cluster BK1.
•Start number 41 was manually annotated 7 times for cluster BK1.
•Start number 63 was manually annotated 1 time for cluster BK1.

Info for manual annotations of cluster BS:
•Start number 45 was manually annotated 1 time for cluster BS.
•Start number 69 was manually annotated 1 time for cluster BS.

Info for manual annotations of cluster C1:
•Start number 39 was manually annotated 1 time for cluster C1.
•Start number 41 was manually annotated 1 time for cluster C1.
•Start number 58 was manually annotated 2 times for cluster C1.

Info for manual annotations of cluster C2:
•Start number 41 was manually annotated 1 time for cluster C2.
•Start number 60 was manually annotated 1 time for cluster C2.
•Start number 62 was manually annotated 1 time for cluster C2.

Info for manual annotations of cluster CG:
•Start number 39 was manually annotated 1 time for cluster CG.

Info for manual annotations of cluster DD:
•Start number 63 was manually annotated 1 time for cluster DD.

Info for manual annotations of cluster DL:
•Start number 23 was manually annotated 1 time for cluster DL.
•Start number 41 was manually annotated 1 time for cluster DL.
•Start number 68 was manually annotated 1 time for cluster DL.

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

Info for manual annotations of cluster DN2:
•Start number 17 was manually annotated 2 times for cluster DN2.

Info for manual annotations of cluster FQ1:
•Start number 44 was manually annotated 1 time for cluster FQ1.

Info for manual annotations of cluster GD1:
•Start number 59 was manually annotated 1 time for cluster GD1.

Info for manual annotations of cluster H1:
•Start number 4 was manually annotated 1 time for cluster H1.

Info for manual annotations of cluster L2:
•Start number 41 was manually annotated 2 times for cluster L2.

Info for manual annotations of cluster L4:

•Start number 41 was manually annotated 1 time for cluster L4.

Info for manual annotations of cluster M1:
•Start number 33 was manually annotated 1 time for cluster M1.
•Start number 39 was manually annotated 1 time for cluster M1.
•Start number 41 was manually annotated 1 time for cluster M1.

Info for manual annotations of cluster U:
•Start number 26 was manually annotated 2 times for cluster U.

Gene Information:

Gene: A3Wally_161 Start: 93240, Stop: 93602, Start Num: 59
Candidate Starts for A3Wally_161:
(Start: 59 @93240 has 1 MA's), (72, 93294), (105, 93381), (115, 93435), (157, 93591),

Gene: AcciDwight_163 Start: 88123, Stop: 88467, Start Num: 63
Candidate Starts for AcciDwight_163:
(Start: 63 @88123 has 10 MA's), (101, 88252), (114, 88312), (115, 88315), (123, 88345), (125, 88360),

Gene: Amabiko_192 Start: 96212, Stop: 96601, Start Num: 41
Candidate Starts for Amabiko_192:
(Start: 41 @96212 has 56 MA's), (114, 96437), (115, 96440), (152, 96584), (157, 96593),

Gene: Anedea_167 Start: 92344, Stop: 92802, Start Num: 41
Candidate Starts for Anedea_167:
(Start: 41 @92344 has 56 MA's), (136, 92674), (162, 92764), (174, 92788),

Gene: Anedea_140 Start: 84644, Stop: 85069, Start Num: 41
Candidate Starts for Anedea_140:
(Start: 41 @84644 has 56 MA's), (101, 84845), (110, 84875), (114, 84902), (118, 84926), (119, 84929), (150, 85052),

Gene: Anedea_42 Start: 21646, Stop: 22047, Start Num: 41
Candidate Starts for Anedea_42:
(Start: 41 @21646 has 56 MA's), (43, 21658), (Start: 46 @21661 has 1 MA's), (56, 21691), (74, 21757), (95, 21820), (115, 21883),

Gene: ArV2_26 Start: 20690, Stop: 21238, Start Num: 44
Candidate Starts for ArV2_26:
(Start: 44 @20690 has 4 MA's), (65, 20753), (77, 20801), (107, 20879), (110, 20894), (129, 20984), (131, 20987), (171, 21116), (181, 21218),

Gene: ArianaSWT_208 Start: 104549, Stop: 105070, Start Num: 41
Candidate Starts for ArianaSWT_208:
(Start: 41 @104549 has 56 MA's), (71, 104651), (94, 104726), (115, 104792), (117, 104807), (125, 104843), (132, 104858), (143, 104900), (154, 104945), (155, 104948), (179, 105065),

Gene: Artu_157 Start: 108175, Stop: 108654, Start Num: 47
Candidate Starts for Artu_157:

(19, 108097), (47, 108175), (110, 108391), (113, 108418), (115, 108424), (122, 108457), (124, 108466), (126, 108478), (133, 108493), (144, 108532), (149, 108565), (155, 108580),

Gene: Bartholomune_188 Start: 98185, Stop: 98556, Start Num: 63
Candidate Starts for Bartholomune_188:
(Start: 61 @98179 has 1 MA's), (Start: 63 @98185 has 10 MA's), (112, 98344), (126, 98410), (128, 98413), (173, 98551),

Gene: Bloom_119 Start: 91780, Stop: 92142, Start Num: 68
Candidate Starts for Bloom_119:
(37, 91675), (Start: 68 @91780 has 2 MA's), (115, 91936), (151, 92080), (170, 92116),

Gene: Blueeyedbeauty_139 Start: 79396, Stop: 79761, Start Num: 63
Candidate Starts for Blueeyedbeauty_139:
(Start: 63 @79396 has 10 MA's), (78, 79465), (91, 79498), (101, 79510), (112, 79555), (114, 79570), (126, 79621), (153, 79717), (164, 79738), (166, 79741),

Gene: Bonray_168 Start: 94840, Stop: 95289, Start Num: 39
Candidate Starts for Bonray_168:
(Start: 39 @94840 has 3 MA's), (42, 94849), (Start: 68 @94942 has 2 MA's), (83, 95002), (86, 95017), (101, 95044), (108, 95056), (109, 95059), (130, 95161), (143, 95209), (163, 95275),

Gene: Bordeaux_154 Start: 87839, Stop: 88183, Start Num: 63
Candidate Starts for Bordeaux_154:
(Start: 63 @87839 has 10 MA's), (101, 87968), (114, 88028), (115, 88031), (123, 88061), (125, 88076),

Gene: Braelyn_43 Start: 22198, Stop: 22599, Start Num: 41
Candidate Starts for Braelyn_43:
(Start: 41 @22198 has 56 MA's), (56, 22243), (73, 22306), (95, 22372), (115, 22435),

Gene: Brizzy_188 Start: 96656, Stop: 97045, Start Num: 41
Candidate Starts for Brizzy_188:
(Start: 41 @96656 has 56 MA's), (114, 96881), (115, 96884), (152, 97028), (157, 97037),

Gene: Brizzy_163 Start: 90852, Stop: 91316, Start Num: 51
Candidate Starts for Brizzy_163:
(Start: 51 @90852 has 4 MA's), (76, 90960), (82, 90990), (114, 91092), (125, 91146), (126, 91149), (136, 91176), (176, 91305),

Gene: Cadmus_194 Start: 103833, Stop: 104354, Start Num: 41
Candidate Starts for Cadmus_194:
(Start: 41 @103833 has 56 MA's), (71, 103935), (94, 104010), (115, 104076), (117, 104091), (125, 104127), (132, 104142), (143, 104184), (154, 104229), (155, 104232), (179, 104349),

Gene: CeilingFan_148 Start: 86515, Stop: 86958, Start Num: 41
Candidate Starts for CeilingFan_148:
(5, 86389), (6, 86401), (8, 86410), (9, 86416), (24, 86473), (Start: 33 @86500 has 1 MA's), (Start: 41 @86515 has 56 MA's), (Start: 68 @86614 has 2 MA's), (125, 86821), (164, 86947),

Gene: ChengKai98_107 Start: 62830, Stop: 63261, Start Num: 41
Candidate Starts for ChengKai98_107:
(12, 62740), (29, 62800), (35, 62818), (Start: 41 @62830 has 56 MA's), (110, 63058), (124, 63127), (125, 63136), (143, 63193),

Gene: Cursive_198 Start: 103181, Stop: 103702, Start Num: 41
Candidate Starts for Cursive_198:
(Start: 41 @103181 has 56 MA's), (71, 103283), (94, 103358), (115, 103424), (117, 103439), (125, 103475), (132, 103490), (143, 103532), (154, 103577), (155, 103580), (179, 103697),

Gene: Cursive_112 Start: 77217, Stop: 77573, Start Num: 63
Candidate Starts for Cursive_112:
(Start: 63 @77217 has 10 MA's), (110, 77361), (114, 77391), (115, 77394), (119, 77418), (126, 77448), (133, 77466), (149, 77538),

Gene: DHan_108 Start: 63363, Stop: 63818, Start Num: 47
Candidate Starts for DHan_108:
(47, 63363), (54, 63375), (56, 63384), (72, 63453), (84, 63501), (100, 63534), (102, 63537), (114, 63594),

Gene: Daisy123_112 Start: 73536, Stop: 73943, Start Num: 52
Candidate Starts for Daisy123_112:
(Start: 52 @73536 has 1 MA's), (102, 73713), (104, 73716), (110, 73740), (115, 73773), (125, 73821), (126, 73824), (138, 73851), (151, 73917), (161, 73938),

Gene: Dandelion_160 Start: 94845, Stop: 95354, Start Num: 41
Candidate Starts for Dandelion_160:
(Start: 18 @94782 has 1 MA's), (21, 94791), (Start: 41 @94845 has 56 MA's), (89, 95025), (101, 95043), (103, 95046), (113, 95097), (114, 95100), (125, 95148), (126, 95151), (147, 95232),

Gene: Daredevil_51 Start: 40951, Stop: 41370, Start Num: 41
Candidate Starts for Daredevil_51:
(11, 40861), (Start: 23 @40906 has 1 MA's), (25, 40912), (Start: 41 @40951 has 56 MA's), (54, 40987), (101, 41149), (115, 41209), (125, 41257),

Gene: Davielle_32 Start: 14821, Stop: 14384, Start Num: 41
Candidate Starts for Davielle_32:
(Start: 41 @14821 has 56 MA's), (117, 14548), (121, 14533), (122, 14530),

Gene: Davielle_104 Start: 73218, Stop: 73643, Start Num: 41
Candidate Starts for Davielle_104:
(Start: 41 @73218 has 56 MA's), (101, 73410), (106, 73419), (136, 73548),

Gene: Davielle_41 Start: 21615, Stop: 22016, Start Num: 41
Candidate Starts for Davielle_41:
(Start: 41 @21615 has 56 MA's), (56, 21660), (115, 21852),

Gene: Ding_36 Start: 25387, Stop: 25947, Start Num: 44
Candidate Starts for Ding_36:
(27, 25336), (Start: 44 @25387 has 4 MA's), (Start: 58 @25423 has 2 MA's), (99, 25567), (129, 25687), (134, 25702), (144, 25741), (148, 25771), (167, 25813), (180, 25909),

Gene: Douge_125 Start: 66042, Stop: 66473, Start Num: 41
Candidate Starts for Douge_125:
(31, 66024), (Start: 41 @66042 has 56 MA's), (70, 66147), (89, 66225), (101, 66243), (110, 66273), (115, 66303), (126, 66351), (144, 66405), (145, 66423),

Gene: EGole_125 Start: 82153, Stop: 82503, Start Num: 63
Candidate Starts for EGole_125:
(Start: 63 @82153 has 10 MA's), (115, 82330), (124, 82369), (146, 82456),

Gene: Elmer_149 Start: 88649, Stop: 88993, Start Num: 68
Candidate Starts for Elmer_149:
(12, 88460), (15, 88475), (24, 88508), (Start: 33 @88535 has 1 MA's), (Start: 41 @88550 has 56 MA's), (Start: 68 @88649 has 2 MA's), (92, 88733), (125, 88856), (164, 88982),

Gene: Enygma_167 Start: 93249, Stop: 93713, Start Num: 51
Candidate Starts for Enygma_167:
(Start: 51 @93249 has 4 MA's), (76, 93357), (82, 93387), (114, 93489), (125, 93543), (126, 93546), (136, 93573), (176, 93702),

Gene: Forrest_91 Start: 63801, Stop: 64238, Start Num: 41
Candidate Starts for Forrest_91:
(36, 63792), (Start: 38 @63795 has 1 MA's), (Start: 41 @63801 has 56 MA's), (109, 64017), (110, 64032), (115, 64062), (124, 64098),

Gene: Forrest_124 Start: 77019, Stop: 77447, Start Num: 41
Candidate Starts for Forrest_124:
(20, 76962), (28, 76983), (30, 76992), (Start: 41 @77019 has 56 MA's), (53, 77049), (Start: 63 @77094 has 10 MA's), (125, 77319), (126, 77322), (142, 77370), (160, 77433),

Gene: Francesca_152 Start: 89986, Stop: 90429, Start Num: 39
Candidate Starts for Francesca_152:
(Start: 39 @89986 has 3 MA's), (115, 90241), (154, 90394), (166, 90418),

Gene: IchabodCrane_184 Start: 95913, Stop: 96302, Start Num: 41
Candidate Starts for IchabodCrane_184:
(Start: 41 @95913 has 56 MA's), (114, 96138), (115, 96141), (152, 96285), (157, 96294),

Gene: Jada_120 Start: 75949, Stop: 76377, Start Num: 41
Candidate Starts for Jada_120:
(20, 75892), (28, 75913), (30, 75922), (Start: 41 @75949 has 56 MA's), (53, 75979), (Start: 63 @76024 has 10 MA's), (125, 76249), (126, 76252), (142, 76300), (160, 76363),

Gene: JimJam_195 Start: 97834, Stop: 98223, Start Num: 41
Candidate Starts for JimJam_195:
(Start: 41 @97834 has 56 MA's), (114, 98059), (115, 98062), (152, 98206), (157, 98215),

Gene: JimJam_152 Start: 87443, Stop: 87886, Start Num: 41
Candidate Starts for JimJam_152:
(5, 87317), (6, 87329), (8, 87338), (9, 87344), (24, 87401), (Start: 33 @87428 has 1 MA's), (Start: 41 @87443 has 56 MA's), (Start: 68 @87542 has 2 MA's), (125, 87749), (164, 87875),

Gene: JimJam_109 Start: 73736, Stop: 74164, Start Num: 41
Candidate Starts for JimJam_109:
(Start: 41 @73736 has 56 MA's), (65, 73817), (114, 73985), (125, 74039), (130, 74045), (165, 74159),

Gene: JonJames_21 Start: 7188, Stop: 7577, Start Num: 63
Candidate Starts for JonJames_21:

(14, 7032), (Start: 33 @7098 has 1 MA's), (Start: 63 @7188 has 10 MA's), (101, 7314), (144, 7476), (163, 7536),

Gene: KentuckyRacer_158 Start: 88711, Stop: 89055, Start Num: 63
Candidate Starts for KentuckyRacer_158:
(Start: 63 @88711 has 10 MA's), (115, 88903), (123, 88933), (125, 88948),

Gene: KentuckyRacer_150 Start: 87011, Stop: 87454, Start Num: 41
Candidate Starts for KentuckyRacer_150:
(5, 86885), (6, 86897), (8, 86906), (9, 86912), (24, 86969), (Start: 33 @86996 has 1 MA's), (Start: 41 @87011 has 56 MA's), (Start: 68 @87110 has 2 MA's), (125, 87317), (164, 87443),

Gene: KentuckyRacer_193 Start: 97580, Stop: 97969, Start Num: 41
Candidate Starts for KentuckyRacer_193:
(Start: 41 @97580 has 56 MA's), (114, 97805), (115, 97808), (152, 97952), (157, 97961),

Gene: Labelle_5 Start: 2590, Stop: 3042, Start Num: 26
Candidate Starts for Labelle_5:
(Start: 26 @2590 has 2 MA's), (102, 2803), (113, 2857), (125, 2911), (126, 2914), (146, 2989), (149, 2998),

Gene: LeBruni_33 Start: 24490, Stop: 25041, Start Num: 44
Candidate Starts for LeBruni_33:
(Start: 44 @24490 has 4 MA's), (54, 24508), (77, 24601), (110, 24694), (114, 24727), (120, 24757), (129, 24784), (144, 24838), (171, 24916),

Gene: Leo04_177 Start: 96224, Stop: 96667, Start Num: 41
Candidate Starts for Leo04_177:
(Start: 41 @96224 has 56 MA's), (81, 96377), (87, 96398), (125, 96530), (135, 96554), (170, 96662),

Gene: Leo04_45 Start: 23281, Stop: 23682, Start Num: 41
Candidate Starts for Leo04_45:
(Start: 41 @23281 has 56 MA's), (56, 23326), (115, 23518),

Gene: Lewan_109 Start: 63302, Stop: 63781, Start Num: 41
Candidate Starts for Lewan_109:
(Start: 39 @63299 has 3 MA's), (Start: 41 @63302 has 56 MA's), (80, 63455), (101, 63500), (110, 63530), (125, 63608), (133, 63629),

Gene: LilhomieP_97 Start: 57511, Stop: 57948, Start Num: 33
Candidate Starts for LilhomieP_97:
(Start: 33 @57511 has 1 MA's), (Start: 41 @57526 has 56 MA's), (80, 57676), (115, 57781), (117, 57796), (125, 57829), (133, 57850), (147, 57913),

Gene: Malisha_34 Start: 26678, Stop: 27247, Start Num: 18
Candidate Starts for Malisha_34:
(Start: 18 @26678 has 1 MA's), (Start: 44 @26750 has 4 MA's), (67, 26828), (77, 26861), (84, 26891), (122, 27020), (125, 27038), (143, 27098), (144, 27101), (178, 27236),

Gene: Marsus_237 Start: 116691, Stop: 117125, Start Num: 38
Candidate Starts for Marsus_237:
(Start: 38 @116691 has 1 MA's), (66, 116781), (115, 116952), (116, 116958), (138, 117033), (143, 117060),

Gene: Marsus_42 Start: 21346, Stop: 21747, Start Num: 41
Candidate Starts for Marsus_42:
(Start: 41 @21346 has 56 MA's), (43, 21358), (Start: 46 @21361 has 1 MA's), (56, 21391), (74, 21457), (95, 21520), (115, 21583),

Gene: Megatron06_4 Start: 2094, Stop: 2681, Start Num: 4
Candidate Starts for Megatron06_4:
(Start: 4 @2094 has 1 MA's), (7, 2112), (10, 2133), (Start: 16 @2154 has 1 MA's), (Start: 26 @2187 has 2 MA's), (Start: 38 @2220 has 1 MA's), (54, 2262), (115, 2490), (119, 2514), (126, 2541), (136, 2562),

Gene: Mildred21_168 Start: 90931, Stop: 91365, Start Num: 41
Candidate Starts for Mildred21_168:
(Start: 41 @90931 has 56 MA's), (115, 91192), (119, 91216), (125, 91243), (136, 91270), (143, 91297), (158, 91354),

Gene: Mildred21_142 Start: 85401, Stop: 85826, Start Num: 41
Candidate Starts for Mildred21_142:
(Start: 41 @85401 has 56 MA's), (101, 85602), (110, 85632), (114, 85659), (118, 85683), (119, 85686), (150, 85809),

Gene: Mugiwara_190 Start: 97213, Stop: 97602, Start Num: 41
Candidate Starts for Mugiwara_190:
(Start: 41 @97213 has 56 MA's), (114, 97438), (115, 97441), (152, 97585), (157, 97594),

Gene: MulchMansion_147 Start: 87054, Stop: 87398, Start Num: 63
Candidate Starts for MulchMansion_147:
(Start: 63 @87054 has 10 MA's), (115, 87246), (123, 87276), (125, 87291),

Gene: Myrna_210 Start: 122711, Stop: 123163, Start Num: 41
Candidate Starts for Myrna_210:
(36, 122702), (Start: 41 @122711 has 56 MA's), (Start: 68 @122810 has 2 MA's), (117, 122984), (125, 123017), (147, 123101),

Gene: Myrna_144 Start: 92033, Stop: 92380, Start Num: 62
Candidate Starts for Myrna_144:
(Start: 62 @92033 has 1 MA's), (92, 92141), (114, 92213), (139, 92294), (143, 92318),

Gene: Navo_42 Start: 22093, Stop: 22494, Start Num: 41
Candidate Starts for Navo_42:
(Start: 41 @22093 has 56 MA's), (56, 22138), (73, 22201), (95, 22267), (115, 22330),

Gene: Neroxid_29 Start: 21456, Stop: 22004, Start Num: 44
Candidate Starts for Neroxid_29:
(Start: 44 @21456 has 4 MA's), (Start: 58 @21492 has 2 MA's), (77, 21567), (99, 21630), (110, 21660), (129, 21750), (134, 21765), (148, 21834), (163, 21867), (171, 21882), (177, 21915), (178, 21954),

Gene: Paradiddles_170 Start: 96596, Stop: 97039, Start Num: 41
Candidate Starts for Paradiddles_170:
(Start: 41 @96596 has 56 MA's), (81, 96749), (87, 96770), (125, 96902), (135, 96926), (170, 97034),

Gene: Park1214_38 Start: 12803, Stop: 13108, Start Num: 69

Candidate Starts for Park1214_38:
(55, 12737), (Start: 69 @12803 has 1 MA's), (98, 12884), (110, 12914), (131, 13004), (137, 13025),

Gene: Patelgo_131 Start: 78593, Stop: 79012, Start Num: 41
Candidate Starts for Patelgo_131:
(Start: 41 @78593 has 56 MA's), (54, 78629), (125, 78893), (160, 79004),

Gene: Patience_5 Start: 2590, Stop: 3042, Start Num: 26
Candidate Starts for Patience_5:
(Start: 26 @2590 has 2 MA's), (102, 2803), (113, 2857), (125, 2911), (126, 2914), (146, 2989), (149, 2998),

Gene: PegLeg_102 Start: 57809, Stop: 58258, Start Num: 39
Candidate Starts for PegLeg_102:
(Start: 39 @57809 has 3 MA's), (91, 57995), (93, 57998), (101, 58010), (110, 58040), (147, 58205), (167, 58253),

Gene: Persimmon_40 Start: 21025, Stop: 21426, Start Num: 41
Candidate Starts for Persimmon_40:
(Start: 41 @21025 has 56 MA's), (56, 21070), (115, 21262),

Gene: Phabba_166 Start: 92816, Stop: 93178, Start Num: 60
Candidate Starts for Phabba_166:
(36, 92741), (Start: 60 @92816 has 1 MA's), (85, 92915), (114, 93011), (115, 93014), (117, 93029), (119, 93038), (134, 93083), (144, 93122), (157, 93167), (159, 93173),

Gene: Phrank15_33 Start: 23639, Stop: 24190, Start Num: 44
Candidate Starts for Phrank15_33:
(Start: 44 @23639 has 4 MA's), (54, 23657), (77, 23750), (110, 23843), (114, 23876), (120, 23906), (129, 23933), (144, 23987), (171, 24065),

Gene: PumpkinSpice_108 Start: 73788, Stop: 74195, Start Num: 52
Candidate Starts for PumpkinSpice_108:
(Start: 52 @73788 has 1 MA's), (102, 73965), (104, 73968), (110, 73992), (115, 74025), (125, 74073), (126, 74076), (138, 74103), (151, 74169), (161, 74190),

Gene: PynkPanther_99 Start: 72565, Stop: 73005, Start Num: 41
Candidate Starts for PynkPanther_99:
(Start: 38 @72559 has 1 MA's), (Start: 41 @72565 has 56 MA's), (64, 72643), (79, 72709), (110, 72784), (125, 72859), (144, 72919), (168, 72988), (172, 72997),

Gene: PynkPanther_33 Start: 15348, Stop: 14911, Start Num: 41
Candidate Starts for PynkPanther_33:
(Start: 41 @15348 has 56 MA's), (117, 15075), (121, 15060), (122, 15057),

Gene: Quaran19_166 Start: 91061, Stop: 91525, Start Num: 51
Candidate Starts for Quaran19_166:
(Start: 51 @91061 has 4 MA's), (76, 91169), (82, 91199), (114, 91301), (125, 91355), (126, 91358), (136, 91385), (176, 91514),

Gene: Raya_29 Start: 21456, Stop: 22004, Start Num: 44
Candidate Starts for Raya_29:

(Start: 44 @21456 has 4 MA's), (Start: 58 @21492 has 2 MA's), (77, 21567), (99, 21630), (110, 21660), (129, 21750), (134, 21765), (148, 21834), (163, 21867), (171, 21882), (177, 21915), (178, 21954),

Gene: Riptide_160 Start: 90983, Stop: 91441, Start Num: 41
Candidate Starts for Riptide_160:
(Start: 41 @90983 has 56 MA's), (136, 91313), (162, 91403), (174, 91427),

Gene: Salacia_226 Start: 127343, Stop: 126957, Start Num: 58
Candidate Starts for Salacia_226:
(50, 127367), (Start: 58 @127343 has 2 MA's), (114, 127157), (127, 127112), (175, 126989),

Gene: Sebata_227 Start: 127157, Stop: 126771, Start Num: 58
Candidate Starts for Sebata_227:
(50, 127181), (Start: 58 @127157 has 2 MA's), (114, 126971), (127, 126926), (175, 126803),

Gene: Sham_86 Start: 65422, Stop: 65853, Start Num: 41
Candidate Starts for Sham_86:
(Start: 41 @65422 has 56 MA's), (119, 65698), (125, 65725), (150, 65821), (158, 65836),

Gene: Sheng711_122 Start: 64965, Stop: 65390, Start Num: 41
Candidate Starts for Sheng711_122:
(Start: 41 @64965 has 56 MA's), (113, 65220), (114, 65223), (143, 65328),

Gene: Skinny_102 Start: 57955, Stop: 58377, Start Num: 41
Candidate Starts for Skinny_102:
(Start: 33 @57940 has 1 MA's), (Start: 41 @57955 has 56 MA's), (80, 58105), (115, 58210), (117, 58225), (125, 58258), (133, 58279), (147, 58342),

Gene: Skitty_26 Start: 20961, Stop: 21509, Start Num: 44
Candidate Starts for Skitty_26:
(Start: 44 @20961 has 4 MA's), (48, 20970), (Start: 68 @21042 has 2 MA's), (99, 21135), (110, 21165), (129, 21255), (144, 21309), (171, 21387),

Gene: Skyerus_29 Start: 21456, Stop: 22004, Start Num: 44
Candidate Starts for Skyerus_29:
(Start: 44 @21456 has 4 MA's), (Start: 58 @21492 has 2 MA's), (77, 21567), (99, 21630), (110, 21660), (129, 21750), (134, 21765), (148, 21834), (163, 21867), (171, 21882), (177, 21915), (178, 21954),

Gene: SpeedDemon_630 Start: 48321, Stop: 48788, Start Num: 23
Candidate Starts for SpeedDemon_630:
(1, 48000), (2, 48108), (3, 48117), (Start: 23 @48321 has 1 MA's), (Start: 52 @48393 has 1 MA's), (90, 48549), (96, 48558), (111, 48606), (125, 48672), (138, 48702),

Gene: Spilled_194 Start: 96766, Stop: 97155, Start Num: 41
Candidate Starts for Spilled_194:
(Start: 41 @96766 has 56 MA's), (114, 96991), (115, 96994), (152, 97138), (157, 97147),

Gene: Spooky_31 Start: 24621, Stop: 25199, Start Num: 17
Candidate Starts for Spooky_31:
(Start: 17 @24621 has 2 MA's), (Start: 44 @24699 has 4 MA's), (77, 24810), (84, 24840), (125, 24987), (134, 25011), (140, 25032), (143, 25047), (144, 25050), (164, 25113), (178, 25188),

Gene: Squiddly_33 Start: 26033, Stop: 26611, Start Num: 17

Candidate Starts for Squiddly_33:
(Start: 17 @26033 has 2 MA's), (Start: 44 @26111 has 4 MA's), (77, 26222), (84, 26252), (125, 26399), (134, 26423), (140, 26444), (143, 26459), (144, 26462), (164, 26525), (178, 26600),

Gene: StarPlatinum_106 Start: 73373, Stop: 73726, Start Num: 63
Candidate Starts for StarPlatinum_106:
(13, 73211), (49, 73316), (Start: 63 @73373 has 10 MA's), (91, 73475), (110, 73514), (115, 73547),

Gene: StarPlatinum_159 Start: 89611, Stop: 89955, Start Num: 63
Candidate Starts for StarPlatinum_159:
(Start: 63 @89611 has 10 MA's), (115, 89803), (123, 89833), (125, 89848),

Gene: Stewart25555_143 Start: 101011, Stop: 101472, Start Num: 41
Candidate Starts for Stewart25555_143:
(34, 100999), (Start: 41 @101011 has 56 MA's), (102, 101209), (132, 101332), (169, 101449),

Gene: Sushi23_176 Start: 96586, Stop: 97014, Start Num: 41
Candidate Starts for Sushi23_176:
(Start: 41 @96586 has 56 MA's), (81, 96739), (125, 96892), (135, 96916),

Gene: Talos_1 Start: 667, Stop: 230, Start Num: 45
Candidate Starts for Talos_1:
(Start: 45 @667 has 1 MA's), (88, 496), (109, 460), (115, 415), (150, 268),

Gene: TomSawyer_149 Start: 86660, Stop: 87088, Start Num: 46
Candidate Starts for TomSawyer_149:
(5, 86519), (6, 86531), (8, 86540), (9, 86546), (24, 86603), (Start: 33 @86630 has 1 MA's), (Start: 41 @86645 has 56 MA's), (Start: 46 @86660 has 1 MA's), (Start: 68 @86744 has 2 MA's), (92, 86828), (125, 86951), (156, 87062), (163, 87074),

Gene: TomSawyer_168 Start: 92075, Stop: 92539, Start Num: 51
Candidate Starts for TomSawyer_168:
(40, 92048), (Start: 51 @92075 has 4 MA's), (76, 92183), (82, 92213), (114, 92315), (125, 92369), (126, 92372), (136, 92399), (176, 92528),

Gene: TomSawyer_193 Start: 97685, Stop: 98074, Start Num: 41
Candidate Starts for TomSawyer_193:
(Start: 41 @97685 has 56 MA's), (114, 97910), (115, 97913), (152, 98057), (157, 98066),

Gene: Towmatter_51 Start: 41131, Stop: 41451, Start Num: 68
Candidate Starts for Towmatter_51:
(22, 40987), (32, 41017), (Start: 41 @41032 has 56 MA's), (54, 41068), (Start: 68 @41131 has 2 MA's), (71, 41140), (101, 41230), (115, 41290), (125, 41338),

Gene: Tribute_97 Start: 71749, Stop: 72189, Start Num: 41
Candidate Starts for Tribute_97:
(Start: 38 @71743 has 1 MA's), (Start: 41 @71749 has 56 MA's), (64, 71827), (79, 71893), (110, 71968), (125, 72043), (144, 72103), (168, 72172), (172, 72181),

Gene: TunaTartare_106 Start: 73259, Stop: 73636, Start Num: 41
Candidate Starts for TunaTartare_106:
(Start: 41 @73259 has 56 MA's), (57, 73304), (115, 73487), (136, 73559), (144, 73589),

Gene: TunaTartare_131 Start: 79206, Stop: 79715, Start Num: 16
Candidate Starts for TunaTartare_131:
(Start: 16 @79206 has 1 MA's), (Start: 41 @79278 has 56 MA's), (66, 79362), (117, 79554), (125, 79590), (132, 79605), (135, 79617), (140, 79632),

Gene: Vetrix_107 Start: 63521, Stop: 64000, Start Num: 41
Candidate Starts for Vetrix_107:
(Start: 33 @63506 has 1 MA's), (Start: 39 @63518 has 3 MA's), (Start: 41 @63521 has 56 MA's), (97, 63713), (110, 63749), (113, 63773), (125, 63827), (143, 63884), (147, 63911), (173, 63968),

Gene: WashU_98 Start: 72058, Stop: 72498, Start Num: 41
Candidate Starts for WashU_98:
(Start: 38 @72052 has 1 MA's), (Start: 41 @72058 has 56 MA's), (64, 72136), (79, 72202), (110, 72277), (125, 72352), (172, 72490),

Gene: Watermoore_188 Start: 100639, Stop: 101016, Start Num: 61
Candidate Starts for Watermoore_188:
(Start: 61 @100639 has 1 MA's), (Start: 63 @100645 has 10 MA's), (112, 100804), (126, 100870), (128, 100873), (173, 101011),

Gene: Westy_93 Start: 66532, Stop: 66957, Start Num: 41
Candidate Starts for Westy_93:
(Start: 17 @66466 has 2 MA's), (24, 66490), (Start: 41 @66532 has 56 MA's), (101, 66724), (114, 66781), (125, 66835), (138, 66862),

Gene: WhereRU_103 Start: 73218, Stop: 73643, Start Num: 41
Candidate Starts for WhereRU_103:
(Start: 41 @73218 has 56 MA's), (101, 73410), (106, 73419), (136, 73548),

Gene: WhereRU_32 Start: 14821, Stop: 14384, Start Num: 41
Candidate Starts for WhereRU_32:
(Start: 41 @14821 has 56 MA's), (117, 14548), (121, 14533), (122, 14530),

Gene: WhereRU_41 Start: 21615, Stop: 22016, Start Num: 41
Candidate Starts for WhereRU_41:
(Start: 41 @21615 has 56 MA's), (56, 21660), (115, 21852),

Gene: Wipeout_181 Start: 97029, Stop: 97418, Start Num: 41
Candidate Starts for Wipeout_181:
(Start: 41 @97029 has 56 MA's), (114, 97254), (115, 97257), (152, 97401), (157, 97410),

Gene: Wofford_45 Start: 23131, Stop: 23520, Start Num: 41
Candidate Starts for Wofford_45:
(Start: 41 @23131 has 56 MA's), (43, 23143), (56, 23176), (74, 23242), (75, 23245), (95, 23293), (115, 23356), (141, 23446),

Gene: Wofford_143 Start: 88534, Stop: 88977, Start Num: 41
Candidate Starts for Wofford_143:
(6, 88420), (8, 88429), (9, 88435), (24, 88492), (Start: 33 @88519 has 1 MA's), (Start: 41 @88534 has 56 MA's), (Start: 68 @88633 has 2 MA's), (125, 88840),

Gene: Wofford_171 Start: 96384, Stop: 96842, Start Num: 41
Candidate Starts for Wofford_171:

(Start: 41 @96384 has 56 MA's), (136, 96714), (162, 96804), (174, 96828),