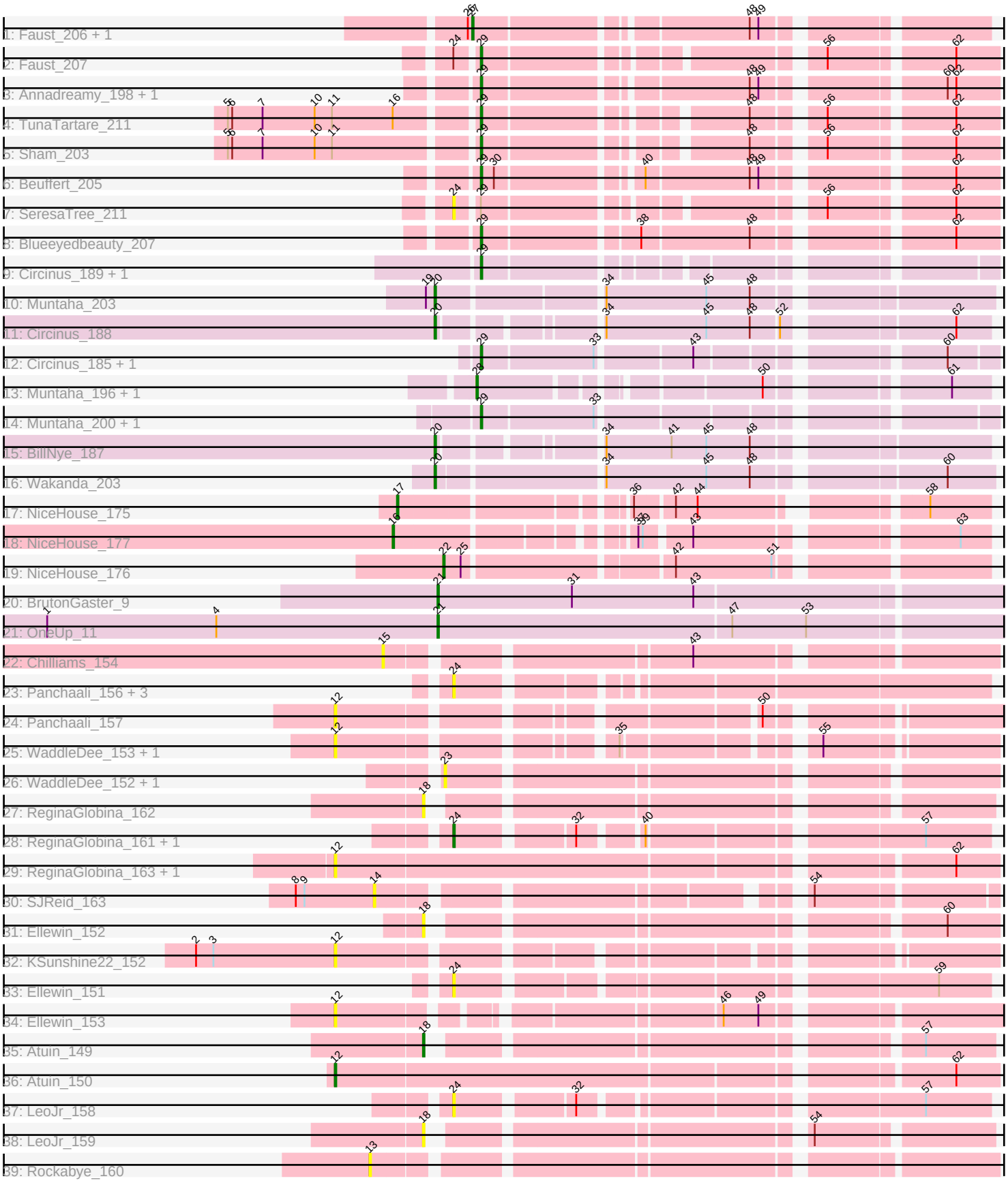
Pham 216238


1: Faust_206 + 1
2: Faust_207
3: Annadreamy_198 + 1
4: TunaTartare_211
5: Sham_203
6: Beuffert_205
7: SeresaTree_211
8: Blueeyedbeauty_207
9: Circinus_189 + 1
10: Muntaha_203
11: Circinus_188
12: Circinus_185 + 1
13: Muntaha_196 + 1
14: Muntaha_200 + 1
15: BillNye_187
16: Wakanda_203
17: NiceHouse_175
18: NiceHouse_177
19: NiceHouse_176
20: BrutonGaster_9
21: OneUp_11
22: Chilliams_154
23: Panchaali_156 + 3
24: Panchaali_157
25: WaddleDee_153 + 1
26: WaddleDee_152 + 1
27: ReginaGlobina_162
28: ReginaGlobina_161 + 1
29: ReginaGlobina_163 + 1
30: SJReid_163
31: Ellewin_152
32: KSunshine22_152
33: Ellewin_151
34: Ellewin_153
35: Atuin_149
36: Atuin_150
37: LeoJr_158
38: LeoJr_159
39: Rockabye_160

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 216238 Report

This analysis was run 02/22/25 on database version 588.

Pham number 216238 has 52 members, 24 are drafts.

Phages represented in each track:
- Track 1 : Faust_206, SeresaTree_210
- Track 2 : Faust_207
- Track 3 : Annadreamy_198, Limpid_205
- Track 4 : TunaTartare_211
- Track 5 : Sham_203
- Track 6 : Beuffert_205
- Track 7 : SeresaTree_211
- Track 8 : Blueeyedbeauty_207
- Track 9 : Circinus_189, BillNye_188
- Track 10 : Muntaha_203
- Track 11 : Circinus_188
- Track 12 : Circinus_185, BillNye_184
- Track 13 : Muntaha_196, Wakanda_196
- Track 14 : Muntaha_200, Wakanda_200
- Track 15 : BillNye_187
- Track 16 : Wakanda_203
- Track 17 : NiceHouse_175
- Track 18 : NiceHouse_177
- Track 19 : NiceHouse_176
- Track 20 : BrutonGaster_9
- Track 21 : OneUp_11
- Track 22 : Chilliams_154
- Track 23 : Panchaali_156, WaddleDee_151, KSunshine22_151, DunneganBoMo_152
- Track 24 : Panchaali_157
- Track 25 : WaddleDee_153, DunneganBoMo_154
- Track 26 : WaddleDee_152, DunneganBoMo_153
- Track 27 : ReginaGlobina_162
- Track 28 : ReginaGlobina_161, Atuin_148
- Track 29 : ReginaGlobina_163, LeoJr_160
- Track 30 : SJReid_163
- Track 31 : Ellewin_152
- Track 32 : KSunshine22_152
- Track 33 : Ellewin_151
- Track 34 : Ellewin_153
- Track 35 : Atuin_149
- Track 36 : Atuin_150

• Track 37 : LeoJr_158
• Track 38 : LeoJr_159
• Track 39 : Rockabye_160

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

The start number called the most often in the published annotations is 29, it was called in 13 of the 28 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Annadreamy_198, Beuffert_205, BillNye_184, BillNye_188, Blueeyedbeauty_207, Circinus_185, Circinus_189, Faust_207, Limpid_205, Muntaha_200, Sham_203, TunaTartare_211, Wakanda_200,

Genes that have the "Most Annotated" start but do not call it:
• SeresaTree_211,

Genes that do not have the "Most Annotated" start:
• Atuin_148, Atuin_149, Atuin_150, BillNye_187, BrutonGaster_9, Chilliams_154, Circinus_188, DunneganBoMo_152, DunneganBoMo_153, DunneganBoMo_154, Ellewin_151, Ellewin_152, Ellewin_153, Faust_206, KSunshine22_151, KSunshine22_152, LeoJr_158, LeoJr_159, LeoJr_160, Muntaha_196, Muntaha_203, NiceHouse_175, NiceHouse_176, NiceHouse_177, OneUp_11, Panchaali_156, Panchaali_157, ReginaGlobina_161, ReginaGlobina_162, ReginaGlobina_163, Rockabye_160, SJReid_163, SeresaTree_210, WaddleDee_151, WaddleDee_152, WaddleDee_153, Wakanda_196, Wakanda_203,

Summary by start number:

Start 12:
• Found in 8 of 52 (15.4%) of genes in pham
• Manual Annotations of this start: 1 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Atuin_150 (FC), DunneganBoMo_154 (FC), Ellewin_153 (FC), KSunshine22_152 (FC), LeoJr_160 (FC), Panchaali_157 (FC), ReginaGlobina_163 (FC), WaddleDee_153 (FC),

Start 13:
• Found in 1 of 52 (1.9%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Rockabye_160 (FC),

Start 14:
• Found in 1 of 52 (1.9%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: SJReid_163 (FC),

Start 15:

• Found in 1 of 52 (1.9%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Chilliams_154 (FC),

Start 16:
• Found in 2 of 52 (3.8%) of genes in pham
• Manual Annotations of this start: 1 of 28
• Called 50.0% of time when present
• Phage (with cluster) where this start called: NiceHouse_177 (CE),

Start 17:
• Found in 1 of 52 (1.9%) of genes in pham
• Manual Annotations of this start: 1 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: NiceHouse_175 (CE),

Start 18:
• Found in 4 of 52 (7.7%) of genes in pham
• Manual Annotations of this start: 1 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Atuin_149 (FC), Ellewin_152 (FC), LeoJr_159 (FC), ReginaGlobina_162 (FC),

Start 20:
• Found in 4 of 52 (7.7%) of genes in pham
• Manual Annotations of this start: 4 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BillNye_187 (BK2), Circinus_188 (BK2), Muntaha_203 (BK2), Wakanda_203 (BK2),

Start 21:
• Found in 2 of 52 (3.8%) of genes in pham
• Manual Annotations of this start: 2 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BrutonGaster_9 (CQ2), OneUp_11 (CQ2),

Start 22:
• Found in 1 of 52 (1.9%) of genes in pham
• Manual Annotations of this start: 1 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: NiceHouse_176 (CE),

Start 23:
• Found in 2 of 52 (3.8%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DunneganBoMo_153 (FC), WaddleDee_152 (FC),

Start 24:
• Found in 10 of 52 (19.2%) of genes in pham

• Manual Annotations of this start: 1 of 28
• Called 90.0% of time when present
• Phage (with cluster) where this start called: Atuin_148 (FC), DunneganBoMo_152 (FC), Ellewin_151 (FC), KSunshine22_151 (FC), LeoJr_158 (FC), Panchaali_156 (FC), ReginaGlobina_161 (FC), SeresaTree_211 (BK1), WaddleDee_151 (FC),

Start 27:
• Found in 2 of 52 (3.8%) of genes in pham
• Manual Annotations of this start: 1 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Faust_206 (BK1), SeresaTree_210 (BK1),

Start 28:
• Found in 2 of 52 (3.8%) of genes in pham
• Manual Annotations of this start: 2 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Muntaha_196 (BK2), Wakanda_196 (BK2),

Start 29:
• Found in 14 of 52 (26.9%) of genes in pham
• Manual Annotations of this start: 13 of 28
• Called 92.9% of time when present
• Phage (with cluster) where this start called: Annadreamy_198 (BK1), Beuffert_205 (BK1), BillNye_184 (BK2), BillNye_188 (BK2), Blueeyedbeauty_207 (BK1), Circinus_185 (BK2), Circinus_189 (BK2), Faust_207 (BK1), Limpid_205 (BK1), Muntaha_200 (BK2), Sham_203 (BK1), TunaTartare_211 (BK1), Wakanda_200 (BK2),

Summary by clusters:

There are 5 clusters represented in this pham: CQ2, FC, CE, BK1, BK2,

Info for manual annotations of cluster BK1:
•Start number 27 was manually annotated 1 time for cluster BK1.
•Start number 29 was manually annotated 7 times for cluster BK1.

Info for manual annotations of cluster BK2:
•Start number 20 was manually annotated 4 times for cluster BK2.
•Start number 28 was manually annotated 2 times for cluster BK2.
•Start number 29 was manually annotated 6 times for cluster BK2.

Info for manual annotations of cluster CE:
•Start number 16 was manually annotated 1 time for cluster CE.
•Start number 17 was manually annotated 1 time for cluster CE.
•Start number 22 was manually annotated 1 time for cluster CE.

Info for manual annotations of cluster CQ2:
•Start number 21 was manually annotated 2 times for cluster CQ2.

Info for manual annotations of cluster FC:
•Start number 12 was manually annotated 1 time for cluster FC.

•Start number 18 was manually annotated 1 time for cluster FC.
•Start number 24 was manually annotated 1 time for cluster FC.

Gene Information:

Gene: Annadreamy_198 Start: 100559, Stop: 100870, Start Num: 29
Candidate Starts for Annadreamy_198:
(Start: 29 @100559 has 13 MA's), (48, 100724), (49, 100730), (60, 100835), (62, 100841),

Gene: Atuin_148 Start: 104321, Stop: 104644, Start Num: 24
Candidate Starts for Atuin_148:
(Start: 24 @104321 has 1 MA's), (32, 104393), (40, 104429), (57, 104600),

Gene: Atuin_149 Start: 104650, Stop: 104988, Start Num: 18
Candidate Starts for Atuin_149:
(Start: 18 @104650 has 1 MA's), (57, 104941),

Gene: Atuin_150 Start: 104992, Stop: 105420, Start Num: 12
Candidate Starts for Atuin_150:
(Start: 12 @104992 has 1 MA's), (62, 105391),

Gene: Beuffert_205 Start: 104551, Stop: 104862, Start Num: 29
Candidate Starts for Beuffert_205:
(Start: 29 @104551 has 13 MA's), (30, 104560), (40, 104647), (48, 104716), (49, 104722), (62, 104833),

Gene: BillNye_184 Start: 100624, Stop: 100935, Start Num: 29
Candidate Starts for BillNye_184:
(Start: 29 @100624 has 13 MA's), (33, 100699), (43, 100759), (60, 100903),

Gene: BillNye_187 Start: 101461, Stop: 101799, Start Num: 20
Candidate Starts for BillNye_187:
(Start: 20 @101461 has 4 MA's), (34, 101554), (41, 101599), (45, 101623), (48, 101653),

Gene: BillNye_188 Start: 101849, Stop: 102151, Start Num: 29
Candidate Starts for BillNye_188:
(Start: 29 @101849 has 13 MA's),

Gene: Blueeyedbeauty_207 Start: 104279, Stop: 104596, Start Num: 29
Candidate Starts for Blueeyedbeauty_207:
(Start: 29 @104279 has 13 MA's), (38, 104378), (48, 104450), (62, 104567),

Gene: BrutonGaster_9 Start: 2765, Stop: 3145, Start Num: 21
Candidate Starts for BrutonGaster_9:
(Start: 21 @2765 has 2 MA's), (31, 2858), (43, 2942),

Gene: Chilliams_154 Start: 95980, Stop: 96354, Start Num: 15
Candidate Starts for Chilliams_154:
(15, 95980), (43, 96166),

Gene: Circinus_189 Start: 101656, Stop: 101958, Start Num: 29

Candidate Starts for Circinus_189:
(Start: 29 @101656 has 13 MA's),

Gene: Circinus_188 Start: 101268, Stop: 101606, Start Num: 20
Candidate Starts for Circinus_188:
(Start: 20 @101268 has 4 MA's), (34, 101361), (45, 101430), (48, 101460), (52, 101478), (62, 101583),

Gene: Circinus_185 Start: 100431, Stop: 100742, Start Num: 29
Candidate Starts for Circinus_185:
(Start: 29 @100431 has 13 MA's), (33, 100506), (43, 100566), (60, 100710),

Gene: DunneganBoMo_153 Start: 101601, Stop: 101942, Start Num: 23
Candidate Starts for DunneganBoMo_153:
(23, 101601),

Gene: DunneganBoMo_154 Start: 101944, Stop: 102327, Start Num: 12
Candidate Starts for DunneganBoMo_154:
(Start: 12 @101944 has 1 MA's), (35, 102106), (55, 102217),

Gene: DunneganBoMo_152 Start: 101261, Stop: 101590, Start Num: 24
Candidate Starts for DunneganBoMo_152:
(Start: 24 @101261 has 1 MA's),

Gene: Ellewin_152 Start: 101696, Stop: 102037, Start Num: 18
Candidate Starts for Ellewin_152:
(Start: 18 @101696 has 1 MA's), (60, 102002),

Gene: Ellewin_151 Start: 101365, Stop: 101691, Start Num: 24
Candidate Starts for Ellewin_151:
(Start: 24 @101365 has 1 MA's), (59, 101656),

Gene: Ellewin_153 Start: 102039, Stop: 102437, Start Num: 12
Candidate Starts for Ellewin_153:
(Start: 12 @102039 has 1 MA's), (46, 102267), (49, 102291),

Gene: Faust_206 Start: 105463, Stop: 105774, Start Num: 27
Candidate Starts for Faust_206:
(26, 105460), (Start: 27 @105463 has 1 MA's), (48, 105634), (49, 105640),

Gene: Faust_207 Start: 105783, Stop: 106088, Start Num: 29
Candidate Starts for Faust_207:
(Start: 24 @105771 has 1 MA's), (Start: 29 @105783 has 13 MA's), (56, 105981), (62, 106059),

Gene: KSunshine22_151 Start: 102661, Stop: 102990, Start Num: 24
Candidate Starts for KSunshine22_151:
(Start: 24 @102661 has 1 MA's),

Gene: KSunshine22_152 Start: 103001, Stop: 103387, Start Num: 12
Candidate Starts for KSunshine22_152:
(2, 102905), (3, 102917), (Start: 12 @103001 has 1 MA's),

Gene: LeoJr_158 Start: 104920, Stop: 105243, Start Num: 24
Candidate Starts for LeoJr_158:

(Start: 24 @104920 has 1 MA's), (32, 104992), (57, 105199),

Gene: LeoJr_160 Start: 105590, Stop: 106018, Start Num: 12
Candidate Starts for LeoJr_160:
(Start: 12 @105590 has 1 MA's), (62, 105989),

Gene: LeoJr_159 Start: 105249, Stop: 105587, Start Num: 18
Candidate Starts for LeoJr_159:
(Start: 18 @105249 has 1 MA's), (54, 105474),

Gene: Limpid_205 Start: 105872, Stop: 106183, Start Num: 29
Candidate Starts for Limpid_205:
(Start: 29 @105872 has 13 MA's), (48, 106037), (49, 106043), (60, 106148), (62, 106154),

Gene: Muntaha_203 Start: 101500, Stop: 101853, Start Num: 20
Candidate Starts for Muntaha_203:
(19, 101494), (Start: 20 @101500 has 4 MA's), (34, 101605), (45, 101674), (48, 101704),

Gene: Muntaha_196 Start: 99557, Stop: 99856, Start Num: 28
Candidate Starts for Muntaha_196:
(Start: 28 @99557 has 2 MA's), (50, 99725), (61, 99830),

Gene: Muntaha_200 Start: 100611, Stop: 100922, Start Num: 29
Candidate Starts for Muntaha_200:
(Start: 29 @100611 has 13 MA's), (33, 100686),

Gene: NiceHouse_175 Start: 99827, Stop: 100174, Start Num: 17
Candidate Starts for NiceHouse_175:
(Start: 17 @99827 has 1 MA's), (36, 99965), (42, 99989), (44, 100004), (58, 100133),

Gene: NiceHouse_177 Start: 100519, Stop: 100866, Start Num: 16
Candidate Starts for NiceHouse_177:
(Start: 16 @100519 has 1 MA's), (37, 100657), (39, 100660), (43, 100687), (63, 100846),

Gene: NiceHouse_176 Start: 100180, Stop: 100518, Start Num: 22
Candidate Starts for NiceHouse_176:
(Start: 22 @100180 has 1 MA's), (25, 100192), (42, 100324), (51, 100390),

Gene: OneUp_11 Start: 3220, Stop: 3600, Start Num: 21
Candidate Starts for OneUp_11:
(1, 2950), (4, 3067), (Start: 21 @3220 has 2 MA's), (47, 3421), (53, 3472),

Gene: Panchaali_156 Start: 101776, Stop: 102108, Start Num: 24
Candidate Starts for Panchaali_156:
(Start: 24 @101776 has 1 MA's),

Gene: Panchaali_157 Start: 102119, Stop: 102511, Start Num: 12
Candidate Starts for Panchaali_157:
(Start: 12 @102119 has 1 MA's), (50, 102368),

Gene: ReginaGlobina_162 Start: 106523, Stop: 106861, Start Num: 18
Candidate Starts for ReginaGlobina_162:
(Start: 18 @106523 has 1 MA's),

Gene: ReginaGlobina_161 Start: 106194, Stop: 106517, Start Num: 24
Candidate Starts for ReginaGlobina_161:
(Start: 24 @106194 has 1 MA's), (32, 106266), (40, 106302), (57, 106473),

Gene: ReginaGlobina_163 Start: 106864, Stop: 107292, Start Num: 12
Candidate Starts for ReginaGlobina_163:
(Start: 12 @106864 has 1 MA's), (62, 107263),

Gene: Rockabye_160 Start: 97547, Stop: 97930, Start Num: 13
Candidate Starts for Rockabye_160:
(13, 97547),

Gene: SJReid_163 Start: 96607, Stop: 96969, Start Num: 14
Candidate Starts for SJReid_163:
(8, 96553), (9, 96559), (14, 96607), (54, 96853),

Gene: SeresaTree_210 Start: 105448, Stop: 105759, Start Num: 27
Candidate Starts for SeresaTree_210:
(26, 105445), (Start: 27 @105448 has 1 MA's), (48, 105619), (49, 105625),

Gene: SeresaTree_211 Start: 105756, Stop: 106073, Start Num: 24
Candidate Starts for SeresaTree_211:
(Start: 24 @105756 has 1 MA's), (Start: 29 @105768 has 13 MA's), (56, 105966), (62, 106044),

Gene: Sham_203 Start: 106846, Stop: 107148, Start Num: 29
Candidate Starts for Sham_203:
(5, 106684), (6, 106687), (7, 106708), (10, 106744), (11, 106756), (Start: 29 @106846 has 13 MA's),
(48, 107002), (56, 107041), (62, 107119),

Gene: TunaTartare_211 Start: 109144, Stop: 109446, Start Num: 29
Candidate Starts for TunaTartare_211:
(5, 108982), (6, 108985), (7, 109006), (10, 109042), (11, 109054), (Start: 16 @109096 has 1 MA's),
(Start: 29 @109144 has 13 MA's), (48, 109300), (56, 109339), (62, 109417),

Gene: WaddleDee_153 Start: 101130, Stop: 101513, Start Num: 12
Candidate Starts for WaddleDee_153:
(Start: 12 @101130 has 1 MA's), (35, 101292), (55, 101403),

Gene: WaddleDee_152 Start: 100787, Stop: 101128, Start Num: 23
Candidate Starts for WaddleDee_152:
(23, 100787),

Gene: WaddleDee_151 Start: 100447, Stop: 100776, Start Num: 24
Candidate Starts for WaddleDee_151:
(Start: 24 @100447 has 1 MA's),

Gene: Wakanda_203 Start: 101737, Stop: 102090, Start Num: 20
Candidate Starts for Wakanda_203:
(Start: 20 @101737 has 4 MA's), (34, 101842), (45, 101911), (48, 101941), (60, 102058),

Gene: Wakanda_196 Start: 99838, Stop: 100137, Start Num: 28
Candidate Starts for Wakanda_196:

(Start: 28 @99838 has 2 MA's), (50, 100006), (61, 100111),

Gene: Wakanda_200 Start: 100892, Stop: 101203, Start Num: 29
Candidate Starts for Wakanda_200:
(Start: 29 @100892 has 13 MA's), (33, 100967),