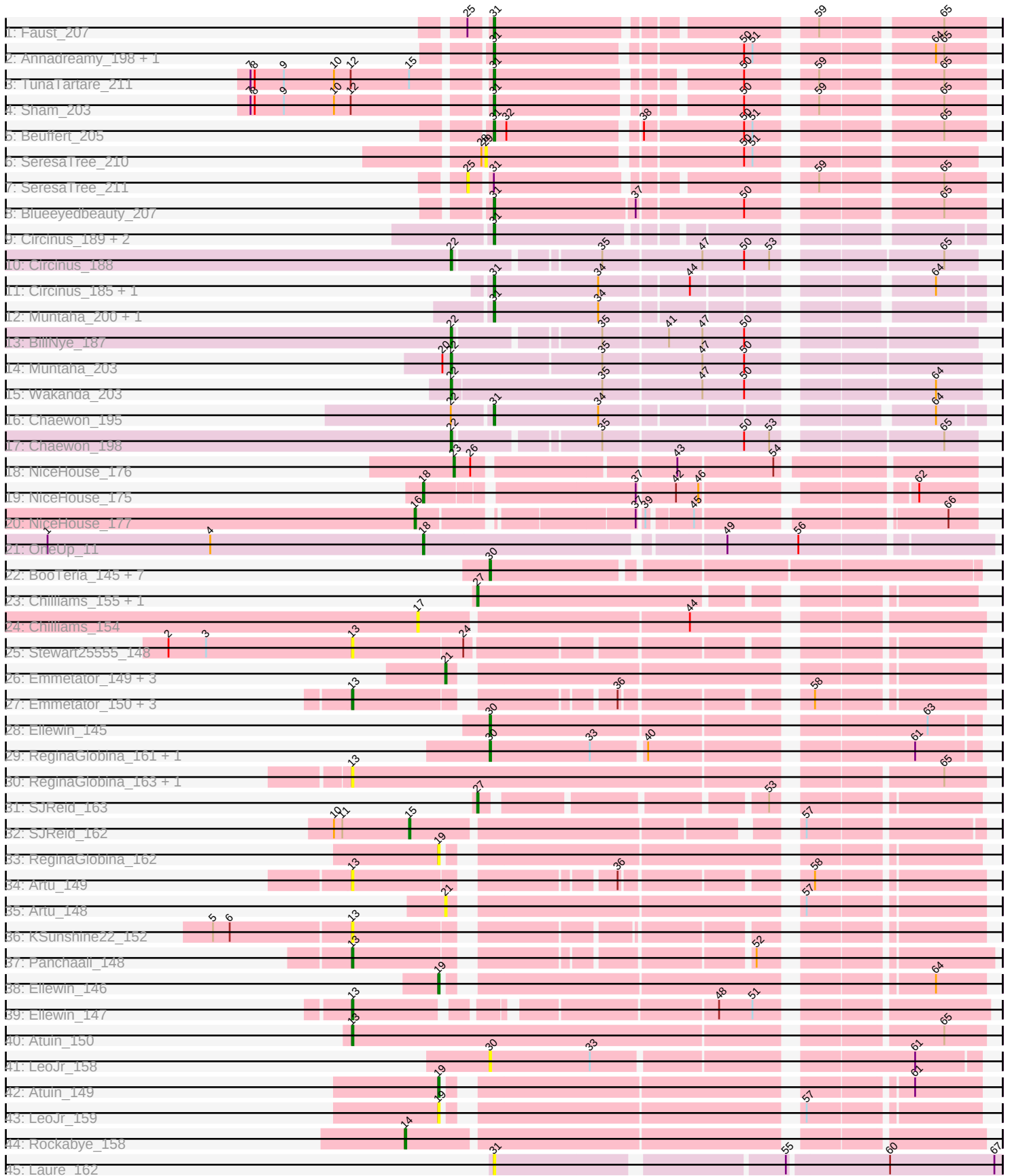


Pham 330845



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 330845 Report

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

Pham number 330845 has 66 members, 21 are drafts.

Phages represented in each track:

- Track 1 : Faust_207
- Track 2 : Annadreamy_198, Limpid_205
- Track 3 : TunaTartare_211
- Track 4 : Sham_203
- Track 5 : Beuffert_205
- Track 6 : SeresaTree_210
- Track 7 : SeresaTree_211
- Track 8 : Blueeyedbeauty_207
- Track 9 : Circinus_189, BillNye_188, Chaewon_199
- Track 10 : Circinus_188
- Track 11 : Circinus_185, BillNye_184
- Track 12 : Muntaha_200, Wakanda_200
- Track 13 : BillNye_187
- Track 14 : Muntaha_203
- Track 15 : Wakanda_203
- Track 16 : Chaewon_195
- Track 17 : Chaewon_198
- Track 18 : NiceHouse_176
- Track 19 : NiceHouse_175
- Track 20 : NiceHouse_177
- Track 21 : OneUp_11
- Track 22 : BooTeria_145, Stewart25555_147, Emmetator_148, DunneganBoMo_145, Artu_147, KSunshine22_151, WaddleDee_141, Panchaali_147
- Track 23 : Chilliams_155, Rockabye_159
- Track 24 : Chilliams_154
- Track 25 : Stewart25555_148
- Track 26 : Emmetator_149, WaddleDee_142, BooTeria_146, DunneganBoMo_146
- Track 27 : Emmetator_150, WaddleDee_143, DunneganBoMo_147, BooTeria_147
- Track 28 : Ellewin_145
- Track 29 : ReginaGlobina_161, Atuin_148
- Track 30 : ReginaGlobina_163, LeoJr_160
- Track 31 : SJReid_163
- Track 32 : SJReid_162
- Track 33 : ReginaGlobina_162
- Track 34 : Artu_149
- Track 35 : Artu_148
- Track 36 : KSunshine22_152

- Track 37 : Panchaali_148
- Track 38 : Ellewin_146
- Track 39 : Ellewin_147
- Track 40 : Atuin_150
- Track 41 : LeoJr_158
- Track 42 : Atuin_149
- Track 43 : LeoJr_159
- Track 44 : Rockabye_158
- Track 45 : Laure_162

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

The start number called the most often in the published annotations is 31, it was called in 15 of the 45 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Annadreamy_198, Beuffert_205, BillNye_184, BillNye_188, Blueeyedbeauty_207, Chaewon_195, Chaewon_199, Circinus_185, Circinus_189, Faust_207, Laure_162, 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:

- Artu_147, Artu_148, Artu_149, Atuin_148, Atuin_149, Atuin_150, BillNye_187, BooTeria_145, BooTeria_146, BooTeria_147, Chaewon_198, Chilliamps_154, Chilliamps_155, Circinus_188, DunneganBoMo_145, DunneganBoMo_146, DunneganBoMo_147, Ellewin_145, Ellewin_146, Ellewin_147, Emmetator_148, Emmetator_149, Emmetator_150, KSunshine22_151, KSunshine22_152, LeoJr_158, LeoJr_159, LeoJr_160, Muntaha_203, NiceHouse_175, NiceHouse_176, NiceHouse_177, OneUp_11, Panchaali_147, Panchaali_148, ReginaGlobina_161, ReginaGlobina_162, ReginaGlobina_163, Rockabye_158, Rockabye_159, SJReid_162, SJReid_163, SeresaTree_210, Stewart25555_147, Stewart25555_148, WaddleDee_141, WaddleDee_142, WaddleDee_143, Wakanda_203,

Summary by start number:

Start 13:

- Found in 12 of 66 (18.2%) of genes in pham
- Manual Annotations of this start: 6 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Artu_149 (FC), Atuin_150 (FC), BooTeria_147 (FC), DunneganBoMo_147 (FC), Ellewin_147 (FC), Emmetator_150 (FC), KSunshine22_152 (FC), LeoJr_160 (FC), Panchaali_148 (FC), ReginaGlobina_163 (FC), Stewart25555_148 (FC), WaddleDee_143 (FC),

Start 14:

- Found in 1 of 66 (1.5%) of genes in pham
- Manual Annotations of this start: 1 of 45
- Called 100.0% of time when present

- Phage (with cluster) where this start called: Rockabye_158 (FC),

Start 15:

- Found in 2 of 66 (3.0%) of genes in pham
- Manual Annotations of this start: 1 of 45
- Called 50.0% of time when present
- Phage (with cluster) where this start called: SJReid_162 (FC),

Start 16:

- Found in 1 of 66 (1.5%) of genes in pham
- Manual Annotations of this start: 1 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NiceHouse_177 (CE),

Start 17:

- Found in 1 of 66 (1.5%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chilliamps_154 (FC),

Start 18:

- Found in 2 of 66 (3.0%) of genes in pham
- Manual Annotations of this start: 2 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NiceHouse_175 (CE), OneUp_11 (CQ2),

Start 19:

- Found in 4 of 66 (6.1%) of genes in pham
- Manual Annotations of this start: 2 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Atuin_149 (FC), Ellewin_146 (FC), LeoJr_159 (FC), ReginaGlobina_162 (FC),

Start 21:

- Found in 5 of 66 (7.6%) of genes in pham
- Manual Annotations of this start: 3 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Artu_148 (FC), BooTeria_146 (FC), DunneganBoMo_146 (FC), Emmetator_149 (FC), WaddleDee_142 (FC),

Start 22:

- Found in 6 of 66 (9.1%) of genes in pham
- Manual Annotations of this start: 5 of 45
- Called 83.3% of time when present
- Phage (with cluster) where this start called: BillNye_187 (BK2), Chaewon_198 (BK2), Circinus_188 (BK2), Muntaha_203 (BK2), Wakanda_203 (BK2),

Start 23:

- Found in 1 of 66 (1.5%) of genes in pham
- Manual Annotations of this start: 1 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NiceHouse_176 (CE),

Start 25:

- Found in 2 of 66 (3.0%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: SeresaTree_211 (BK1),

Start 27:

- Found in 3 of 66 (4.5%) of genes in pham
- Manual Annotations of this start: 2 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chilliamps_155 (FC), Rockabye_159 (FC), SJReid_163 (FC),

Start 29:

- Found in 1 of 66 (1.5%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: SeresaTree_210 (BK1),

Start 30:

- Found in 12 of 66 (18.2%) of genes in pham
- Manual Annotations of this start: 6 of 45
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Artu_147 (FC), Atuin_148 (FC), BooTeria_145 (FC), DunneganBoMo_145 (FC), Ellewin_145 (FC), Emmetator_148 (FC), KSunshine22_151 (FC), LeoJr_158 (FC), Panchaali_147 (FC), ReginaGlobina_161 (FC), Stewart25555_147 (FC), WaddleDee_141 (FC),

Start 31:

- Found in 17 of 66 (25.8%) of genes in pham
- Manual Annotations of this start: 15 of 45
- Called 94.1% 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), Chaewon_195 (BK2), Chaewon_199 (BK2), Circinus_185 (BK2), Circinus_189 (BK2), Faust_207 (BK1), Laure_162 (UNK), Limpid_205 (BK1), Muntaha_200 (BK2), Sham_203 (BK1), TunaTartare_211 (BK1), Wakanda_200 (BK2),

Summary by clusters:

There are 6 clusters represented in this pham: CE, FC, BK1, BK2, CQ2, UNK,

Info for manual annotations of cluster BK1:

- Start number 31 was manually annotated 7 times for cluster BK1.

Info for manual annotations of cluster BK2:

- Start number 22 was manually annotated 5 times for cluster BK2.
- Start number 31 was manually annotated 8 times for cluster BK2.

Info for manual annotations of cluster CE:

- Start number 16 was manually annotated 1 time for cluster CE.
- Start number 18 was manually annotated 1 time for cluster CE.
- Start number 23 was manually annotated 1 time for cluster CE.

Info for manual annotations of cluster CQ2:

- Start number 18 was manually annotated 1 time for cluster CQ2.

Info for manual annotations of cluster FC:

- Start number 13 was manually annotated 6 times for cluster FC.
- Start number 14 was manually annotated 1 time for cluster FC.
- Start number 15 was manually annotated 1 time for cluster FC.
- Start number 19 was manually annotated 2 times for cluster FC.
- Start number 21 was manually annotated 3 times for cluster FC.
- Start number 27 was manually annotated 2 times for cluster FC.
- Start number 30 was manually annotated 6 times for cluster FC.

Gene Information:

Gene: Annadreamy_198 Start: 100559, Stop: 100870, Start Num: 31

Candidate Starts for Annadreamy_198:

(Start: 31 @100559 has 15 MA's), (50, 100724), (51, 100730), (64, 100835), (65, 100841),

Gene: Artu_149 Start: 102382, Stop: 102765, Start Num: 13

Candidate Starts for Artu_149:

(Start: 13 @102382 has 6 MA's), (36, 102544), (58, 102655),

Gene: Artu_148 Start: 102038, Stop: 102379, Start Num: 21

Candidate Starts for Artu_148:

(Start: 21 @102038 has 3 MA's), (57, 102263),

Gene: Artu_147 Start: 101698, Stop: 102027, Start Num: 30

Candidate Starts for Artu_147:

(Start: 30 @101698 has 6 MA's),

Gene: Atuin_148 Start: 104321, Stop: 104644, Start Num: 30

Candidate Starts for Atuin_148:

(Start: 30 @104321 has 6 MA's), (33, 104393), (40, 104429), (61, 104600),

Gene: Atuin_150 Start: 104992, Stop: 105420, Start Num: 13

Candidate Starts for Atuin_150:

(Start: 13 @104992 has 6 MA's), (65, 105391),

Gene: Atuin_149 Start: 104650, Stop: 104988, Start Num: 19

Candidate Starts for Atuin_149:

(Start: 19 @104650 has 2 MA's), (61, 104941),

Gene: Beuffert_205 Start: 104551, Stop: 104862, Start Num: 31

Candidate Starts for Beuffert_205:

(Start: 31 @104551 has 15 MA's), (32, 104560), (38, 104647), (50, 104716), (51, 104722), (65, 104833),

Gene: BillNye_184 Start: 100624, Stop: 100935, Start Num: 31

Candidate Starts for BillNye_184:

(Start: 31 @100624 has 15 MA's), (34, 100699), (44, 100759), (64, 100903),

Gene: BillNye_187 Start: 101461, Stop: 101799, Start Num: 22

Candidate Starts for BillNye_187:

(Start: 22 @101461 has 5 MA's), (35, 101554), (41, 101599), (47, 101623), (50, 101653),

Gene: BillNye_188 Start: 101849, Stop: 102151, Start Num: 31

Candidate Starts for BillNye_188:

(Start: 31 @101849 has 15 MA's),

Gene: Blueeyedbeauty_207 Start: 104279, Stop: 104596, Start Num: 31

Candidate Starts for Blueeyedbeauty_207:

(Start: 31 @104279 has 15 MA's), (37, 104378), (50, 104450), (65, 104567),

Gene: BooTeria_145 Start: 101992, Stop: 102321, Start Num: 30

Candidate Starts for BooTeria_145:

(Start: 30 @101992 has 6 MA's),

Gene: BooTeria_146 Start: 102332, Stop: 102673, Start Num: 21

Candidate Starts for BooTeria_146:

(Start: 21 @102332 has 3 MA's),

Gene: BooTeria_147 Start: 102675, Stop: 103058, Start Num: 13

Candidate Starts for BooTeria_147:

(Start: 13 @102675 has 6 MA's), (36, 102837), (58, 102948),

Gene: Chaewon_195 Start: 102351, Stop: 102662, Start Num: 31

Candidate Starts for Chaewon_195:

(Start: 22 @102324 has 5 MA's), (Start: 31 @102351 has 15 MA's), (34, 102426), (64, 102630),

Gene: Chaewon_199 Start: 103586, Stop: 103888, Start Num: 31

Candidate Starts for Chaewon_199:

(Start: 31 @103586 has 15 MA's),

Gene: Chaewon_198 Start: 103198, Stop: 103536, Start Num: 22

Candidate Starts for Chaewon_198:

(Start: 22 @103198 has 5 MA's), (35, 103291), (50, 103390), (53, 103408), (65, 103513),

Gene: Chilliams_155 Start: 96358, Stop: 96678, Start Num: 27

Candidate Starts for Chilliams_155:

(Start: 27 @96358 has 2 MA's),

Gene: Chilliams_154 Start: 95980, Stop: 96354, Start Num: 17

Candidate Starts for Chilliams_154:

(17, 95980), (44, 96166),

Gene: Circinus_189 Start: 101656, Stop: 101958, Start Num: 31

Candidate Starts for Circinus_189:

(Start: 31 @101656 has 15 MA's),

Gene: Circinus_188 Start: 101268, Stop: 101606, Start Num: 22

Candidate Starts for Circinus_188:

(Start: 22 @101268 has 5 MA's), (35, 101361), (47, 101430), (50, 101460), (53, 101478), (65, 101583),

Gene: Circinus_185 Start: 100431, Stop: 100742, Start Num: 31
Candidate Starts for Circinus_185:
(Start: 31 @100431 has 15 MA's), (34, 100506), (44, 100566), (64, 100710),

Gene: DunneganBoMo_145 Start: 101261, Stop: 101590, Start Num: 30
Candidate Starts for DunneganBoMo_145:
(Start: 30 @101261 has 6 MA's),

Gene: DunneganBoMo_146 Start: 101601, Stop: 101942, Start Num: 21
Candidate Starts for DunneganBoMo_146:
(Start: 21 @101601 has 3 MA's),

Gene: DunneganBoMo_147 Start: 101944, Stop: 102327, Start Num: 13
Candidate Starts for DunneganBoMo_147:
(Start: 13 @101944 has 6 MA's), (36, 102106), (58, 102217),

Gene: Ellewin_145 Start: 101365, Stop: 101691, Start Num: 30
Candidate Starts for Ellewin_145:
(Start: 30 @101365 has 6 MA's), (63, 101656),

Gene: Ellewin_146 Start: 101696, Stop: 102037, Start Num: 19
Candidate Starts for Ellewin_146:
(Start: 19 @101696 has 2 MA's), (64, 102002),

Gene: Ellewin_147 Start: 102039, Stop: 102437, Start Num: 13
Candidate Starts for Ellewin_147:
(Start: 13 @102039 has 6 MA's), (48, 102267), (51, 102291),

Gene: Emmetator_149 Start: 101914, Stop: 102255, Start Num: 21
Candidate Starts for Emmetator_149:
(Start: 21 @101914 has 3 MA's),

Gene: Emmetator_150 Start: 102257, Stop: 102640, Start Num: 13
Candidate Starts for Emmetator_150:
(Start: 13 @102257 has 6 MA's), (36, 102419), (58, 102530),

Gene: Emmetator_148 Start: 101571, Stop: 101903, Start Num: 30
Candidate Starts for Emmetator_148:
(Start: 30 @101571 has 6 MA's),

Gene: Faust_207 Start: 105783, Stop: 106088, Start Num: 31
Candidate Starts for Faust_207:
(25, 105771), (Start: 31 @105783 has 15 MA's), (59, 105981), (65, 106059),

Gene: KSunshine22_151 Start: 102661, Stop: 102990, Start Num: 30
Candidate Starts for KSunshine22_151:
(Start: 30 @102661 has 6 MA's),

Gene: KSunshine22_152 Start: 103001, Stop: 103387, Start Num: 13
Candidate Starts for KSunshine22_152:
(5, 102905), (6, 102917), (Start: 13 @103001 has 6 MA's),

Gene: Laure_162 Start: 98082, Stop: 98423, Start Num: 31
Candidate Starts for Laure_162:
(Start: 31 @98082 has 15 MA's), (55, 98274), (60, 98343), (67, 98418),

Gene: LeoJr_158 Start: 104920, Stop: 105243, Start Num: 30
Candidate Starts for LeoJr_158:
(Start: 30 @104920 has 6 MA's), (33, 104992), (61, 105199),

Gene: LeoJr_160 Start: 105590, Stop: 106018, Start Num: 13
Candidate Starts for LeoJr_160:
(Start: 13 @105590 has 6 MA's), (65, 105989),

Gene: LeoJr_159 Start: 105249, Stop: 105587, Start Num: 19
Candidate Starts for LeoJr_159:
(Start: 19 @105249 has 2 MA's), (57, 105474),

Gene: Limpid_205 Start: 105872, Stop: 106183, Start Num: 31
Candidate Starts for Limpid_205:
(Start: 31 @105872 has 15 MA's), (50, 106037), (51, 106043), (64, 106148), (65, 106154),

Gene: Muntaha_200 Start: 100611, Stop: 100922, Start Num: 31
Candidate Starts for Muntaha_200:
(Start: 31 @100611 has 15 MA's), (34, 100686),

Gene: Muntaha_203 Start: 101500, Stop: 101853, Start Num: 22
Candidate Starts for Muntaha_203:
(20, 101494), (Start: 22 @101500 has 5 MA's), (35, 101605), (47, 101674), (50, 101704),

Gene: NiceHouse_176 Start: 100180, Stop: 100518, Start Num: 23
Candidate Starts for NiceHouse_176:
(Start: 23 @100180 has 1 MA's), (26, 100192), (43, 100324), (54, 100390),

Gene: NiceHouse_175 Start: 99827, Stop: 100174, Start Num: 18
Candidate Starts for NiceHouse_175:
(Start: 18 @99827 has 2 MA's), (37, 99965), (42, 99989), (46, 100004), (62, 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), (45, 100687), (66, 100846),

Gene: OneUp_11 Start: 3220, Stop: 3600, Start Num: 18
Candidate Starts for OneUp_11:
(1, 2950), (4, 3067), (Start: 18 @3220 has 2 MA's), (49, 3421), (56, 3472),

Gene: Panchaali_147 Start: 101776, Stop: 102108, Start Num: 30
Candidate Starts for Panchaali_147:
(Start: 30 @101776 has 6 MA's),

Gene: Panchaali_148 Start: 102119, Stop: 102511, Start Num: 13
Candidate Starts for Panchaali_148:
(Start: 13 @102119 has 6 MA's), (52, 102368),

Gene: ReginaGlobina_161 Start: 106194, Stop: 106517, Start Num: 30

Candidate Starts for ReginaGlobina_161:
(Start: 30 @106194 has 6 MA's), (33, 106266), (40, 106302), (61, 106473),

Gene: ReginaGlobina_163 Start: 106864, Stop: 107292, Start Num: 13
Candidate Starts for ReginaGlobina_163:
(Start: 13 @106864 has 6 MA's), (65, 107263),

Gene: ReginaGlobina_162 Start: 106523, Stop: 106861, Start Num: 19
Candidate Starts for ReginaGlobina_162:
(Start: 19 @106523 has 2 MA's),

Gene: Rockabye_158 Start: 97547, Stop: 97930, Start Num: 14
Candidate Starts for Rockabye_158:
(Start: 14 @97547 has 1 MA's),

Gene: Rockabye_159 Start: 97934, Stop: 98251, Start Num: 27
Candidate Starts for Rockabye_159:
(Start: 27 @97934 has 2 MA's),

Gene: SJReid_163 Start: 96973, Stop: 97275, Start Num: 27
Candidate Starts for SJReid_163:
(Start: 27 @96973 has 2 MA's), (53, 97150),

Gene: SJReid_162 Start: 96607, Stop: 96969, Start Num: 15
Candidate Starts for SJReid_162:
(10, 96553), (11, 96559), (Start: 15 @96607 has 1 MA's), (57, 96853),

Gene: SeresaTree_210 Start: 105448, Stop: 105759, Start Num: 29
Candidate Starts for SeresaTree_210:
(28, 105445), (29, 105448), (50, 105619), (51, 105625),

Gene: SeresaTree_211 Start: 105756, Stop: 106073, Start Num: 25
Candidate Starts for SeresaTree_211:
(25, 105756), (Start: 31 @105768 has 15 MA's), (59, 105966), (65, 106044),

Gene: Sham_203 Start: 106846, Stop: 107148, Start Num: 31
Candidate Starts for Sham_203:
(7, 106684), (8, 106687), (9, 106708), (10, 106744), (12, 106756), (Start: 31 @106846 has 15 MA's),
(50, 107002), (59, 107041), (65, 107119),

Gene: Stewart25555_147 Start: 102928, Stop: 103263, Start Num: 30
Candidate Starts for Stewart25555_147:
(Start: 30 @102928 has 6 MA's),

Gene: Stewart25555_148 Start: 103275, Stop: 103673, Start Num: 13
Candidate Starts for Stewart25555_148:
(2, 103143), (3, 103170), (Start: 13 @103275 has 6 MA's), (24, 103353),

Gene: TunaTartare_211 Start: 109144, Stop: 109446, Start Num: 31
Candidate Starts for TunaTartare_211:
(7, 108982), (8, 108985), (9, 109006), (10, 109042), (12, 109054), (Start: 15 @109096 has 1 MA's),
(Start: 31 @109144 has 15 MA's), (50, 109300), (59, 109339), (65, 109417),

Gene: WaddleDee_142 Start: 100787, Stop: 101128, Start Num: 21
Candidate Starts for WaddleDee_142:
(Start: 21 @100787 has 3 MA's),

Gene: WaddleDee_143 Start: 101130, Stop: 101513, Start Num: 13
Candidate Starts for WaddleDee_143:
(Start: 13 @101130 has 6 MA's), (36, 101292), (58, 101403),

Gene: WaddleDee_141 Start: 100447, Stop: 100776, Start Num: 30
Candidate Starts for WaddleDee_141:
(Start: 30 @100447 has 6 MA's),

Gene: Wakanda_203 Start: 101737, Stop: 102090, Start Num: 22
Candidate Starts for Wakanda_203:
(Start: 22 @101737 has 5 MA's), (35, 101842), (47, 101911), (50, 101941), (64, 102058),

Gene: Wakanda_200 Start: 100892, Stop: 101203, Start Num: 31
Candidate Starts for Wakanda_200:
(Start: 31 @100892 has 15 MA's), (34, 100967),