Pham 289206

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51: Panchaali_154
52: Stewart25555_182
53: Rockabye_165
54: Emmetator_153
55: ReginaGiobina_168
56: SJReid_167
57: PauloDiabol_205 + 2
58: Zooman_211
59: Erasmago_234
60: Big4_227
61: Cece_214
62: Laure_166

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 289206 Report

This analysis was run 03/28/26 on database version 641.

Pham number 289206 has 119 members, 21 are drafts.

Phages represented in each track:
- Track 1 : Paradiddles_211, Davielle_218, WhereRU_218, Braelyn_215
- Track 2 : FreddyDRoo_223, Bartholomune_219, Persimmon_222, PinkiePie_219, NootNoot_216, Eliot67_221, Navo_213, Liandry_219, Squillium_222
- Track 3 : Cursive_221, Larnav_218, PacManQ_215, Lululemon_215, HangryHippo_217, BlueOtter_217, Peebs_216, Coogler_216, Samisti12_223, Scheme_222, Leo04_219, Cross_218, Watermoore_218
- Track 4 : Targaryen_218, Evy_209, Jay2Jay_224, Warpy_222
- Track 5 : Bmoc_223
- Track 6 : Marsus_221
- Track 7 : Cadmus_216
- Track 8 : Tribute_215, Sushi23_219, Pepperwood_219
- Track 9 : EGole_222
- Track 10 : MulchMansion_222, LilMartin_218, Angela_221
- Track 11 : Mildred21_228
- Track 12 : Anedea_232, LilSaint_220, Riptide_220
- Track 13 : Shuckle_217
- Track 14 : Daubenski_212
- Track 15 : Teutsch_218
- Track 16 : Tomas_231
- Track 17 : Kenrey_174
- Track 18 : SparkleGoddess_166, Stigma_165, Comrade_164, Karp_161, Belfort_167, Westy_169
- Track 19 : Emma1919_171, Gilson_170, Maupel_171
- Track 20 : DeluluLabubu_174, Jada_170, Forrest_173
- Track 21 : Faust_160, SeresaTree_162
- Track 22 : Annadreamy_154, Limpid_161
- Track 23 : Francob_169
- Track 24 : Beuffert_160
- Track 25 : Moab_168, Patelgo_169
- Track 26 : Blueeyedbeauty_162
- Track 27 : TunaTartare_166
- Track 28 : Sham_160
- Track 29 : Phredrick_172
- Track 30 : MeganTheeKilla_170
- Track 31 : Muntaha_139
- Track 32 : Chaewon_135
- Track 33 : BillNye_131, Circinus_132

- Track 34 : Wakanda_138
- Track 35 : Grayson_118
- Track 36 : Weasels2_120
- Track 37 : Peregrin_117
- Track 38 : NiceHouse_135
- Track 39 : Trina_157
- Track 40 : Nova53_124
- Track 41 : Dorin_124, Francesca_124
- Track 42 : FloraSnap32_162
- Track 43 : Ellewin_158, BooTeria_161, WaddleDee_148
- Track 44 : Atuin_155, LeoJr_165
- Track 45 : GoldenEssence_150, Patbob_161
- Track 46 : Phrampa_155
- Track 47 : FrostedClock_168, Bloom_168, Talia1610_165, Racecar_166, Mimi_165
- Track 48 : Artu_154
- Track 49 : KSunshine22_157, DunneganBoMo_152
- Track 50 : Chilliams_159
- Track 51 : Panchaali_154
- Track 52 : Stewart25555_152
- Track 53 : Rockabye_165
- Track 54 : Emmetator_155
- Track 55 : ReginaGlobina_168
- Track 56 : SJReid_167
- Track 57 : PauloDiaboli_245, Dodo_243, A3Wally_245
- Track 58 : Zooman_211
- Track 59 : Erasmago_234
- Track 60 : Big4_227
- Track 61 : Cece_214
- Track 62 : Laure_166

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

The start number called the most often in the published annotations is 25, it was called in 47 of the 98 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
- Anedea_232, Angela_221, Bartholomune_219, BlueOtter_217, Bmoc_223, Braelyn_215, Cadmus_216, Chaewon_135, Coogler_216, Cross_218, Cursive_221, Daubenski_212, Davielle_218, EGole_222, Eliot67_221, Evy_209, FreddyDRoo_223, HangryHippo_217, Jay2Jay_224, Larnav_218, Leo04_219, Liandry_219, LilMartin_218, LilSaint_220, Lululemon_215, Marsus_221, Mildred21_228, MulchMansion_222, Navo_213, NootNoot_216, PacManQ_215, Paradiddles_211, Peebs_216, Pepperwood_219, Persimmon_222, PinkiePie_219, Riptide_220, Samisti12_223, Scheme_222, Sham_160, Shuckle_217, Squillium_222, Sushi23_219, Targaryen_218, Teutsch_218, Tomas_231, Tribute_215, Warpy_222, Watermoore_218, WhereRU_218,

Genes that have the "Most Annotated" start but do not call it:
- BillNye_131, Circinus_132,

Genes that do not have the "Most Annotated" start:
• A3Wally_245, Annadreamy_154, Artu_154, Atuin_155, Belfort_167, Beuffert_160, Big4_227, Bloom_168, Blueeyedbeauty_162, BooTeria_161, Cece_214, Chilliams_159, Comrade_164, DeluluLabubu_174, Dodo_243, Dorin_124, DunneganBoMo_152, Ellewin_158, Emma1919_171, Emmetator_155, Erasmago_234, Faust_160, FloraSnap32_162, Forrest_173, Francesca_124, Francob_169, FrostedClock_168, Gilson_170, GoldenEssence_150, Grayson_118, Jada_170, KSunshine22_157, Karp_161, Kenrey_174, Laure_166, LeoJr_165, Limpid_161, Maupel_171, MeganTheeKilla_170, Mimi_165, Moab_168, Muntaha_139, NiceHouse_135, Nova53_124, Panchaali_154, Patbob_161, Patelgo_169, PauloDiaboli_245, Peregrin_117, Phrampa_155, Phredrick_172, Racecar_166, ReginaGlobina_168, Rockabye_165, SJReid_167, SeresaTree_162, SparkleGoddess_166, Stewart25555_152, Stigma_165, Talia1610_165, Trina_157, TunaTartare_166, WaddleDee_148, Wakanda_138, Weasels2_120, Westy_169, Zooman_211,

Summary by start number:

Start 15:
• Found in 2 of 119 (1.7%) of genes in pham
• Manual Annotations of this start: 2 of 98
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BillNye_131 (BK2), Circinus_132 (BK2),

Start 25:
• Found in 52 of 119 (43.7%) of genes in pham
• Manual Annotations of this start: 47 of 98
• Called 96.2% of time when present
• Phage (with cluster) where this start called: Anedea_232 (BE1), Angela_221 (BE1), Bartholomune_219 (BE1), BlueOtter_217 (BE1), Bmoc_223 (BE1), Braelyn_215 (BE1), Cadmus_216 (BE1), Chaewon_135 (BK2), Coogler_216 (BE1), Cross_218 (BE1), Cursive_221 (BE1), Daubenski_212 (BE1), Davielle_218 (BE1), EGole_222 (BE1), Eliot67_221 (BE1), Evy_209 (BE1), FreddyDRoo_223 (BE1), HangryHippo_217 (BE1), Jay2Jay_224 (BE1), Larnav_218 (BE1), Leo04_219 (BE1), Liandry_219 (BE1), LilMartin_218 (BE1), LilSaint_220 (BE1), Lululemon_215 (BE1), Marsus_221 (BE1), Mildred21_228 (BE1), MulchMansion_222 (BE1), Navo_213 (BE1), NootNoot_216 (BE1), PacManQ_215 (BE1), Paradiddles_211 (BE1), Peebs_216 (BE1), Pepperwood_219 (BE1), Persimmon_222 (BE1), PinkiePie_219 (BE1), Riptide_220 (BE1), Samisti12_223 (BE1), Scheme_222 (BE1), Sham_160 (BK1), Shuckle_217 (BE1), Squillium_222 (BE1), Sushi23_219 (BE1), Targaryen_218 (BE1), Teutsch_218 (BE1), Tomas_231 (BE2), Tribute_215 (BE1), Warpy_222 (BE1), Watermoore_218 (BE1), WhereRU_218 (BE1),

Start 26:
• Found in 9 of 119 (7.6%) of genes in pham
• Manual Annotations of this start: 8 of 98
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Annadreamy_154 (BK1), Beuffert_160 (BK1), Blueeyedbeauty_162 (BK1), Faust_160 (BK1), Limpid_161 (BK1), Muntaha_139 (BK2), SeresaTree_162 (BK1), TunaTartare_166 (BK1), Wakanda_138 (BK2),

Start 27:

• Found in 3 of 119 (2.5%) of genes in pham
• Manual Annotations of this start: 2 of 98
• Called 100.0% of time when present
• Phage (with cluster) where this start called: A3Wally_245 (GD1), Dodo_243 (GD1), PauloDiaboli_245 (GD1),

Start 28:
• Found in 37 of 119 (31.1%) of genes in pham
• Manual Annotations of this start: 22 of 98
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Artu_154 (FC), Atuin_155 (FC), Big4_227 (GD2), Bloom_168 (FC), BooTeria_161 (FC), Cece_214 (GD3), Chilliams_159 (FC), Dorin_124 (CG), DunneganBoMo_152 (FC), Ellewin_158 (FC), Emmetator_155 (FC), Erasmago_234 (GD2), FloraSnap32_162 (FC), Francesca_124 (CG), FrostedClock_168 (FC), GoldenEssence_150 (FC), Grayson_118 (CB), KSunshine22_157 (FC), Laure_166 (UNK), LeoJr_165 (FC), Mimi_165 (FC), NiceHouse_135 (CE), Nova53_124 (CG), Panchaali_154 (FC), Patbob_161 (FC), Peregrin_117 (CB), Phrampa_155 (FC), Racecar_166 (FC), ReginaGlobina_168 (FC), Rockabye_165 (FC), SJReid_167 (FC), Stewart25555_152 (FC), Talia1610_165 (FC), Trina_157 (CE), WaddleDee_148 (FC), Weasels2_120 (CB), Zooman_211 (GD2),

Start 29:
• Found in 17 of 119 (14.3%) of genes in pham
• Manual Annotations of this start: 16 of 98
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Belfort_167 (BK1), Comrade_164 (BK1), DeluluLabubu_174 (BK1), Emma1919_171 (BK1), Forrest_173 (BK1), Gilson_170 (BK1), Jada_170 (BK1), Karp_161 (BK1), Kenrey_174 (BK1), Maupel_171 (BK1), MeganTheeKilla_170 (BK1), Moab_168 (BK1), Patelgo_169 (BK1), Phredrick_172 (BK1), SparkleGoddess_166 (BK1), Stigma_165 (BK1), Westy_169 (BK1),

Start 30:
• Found in 1 of 119 (0.8%) of genes in pham
• Manual Annotations of this start: 1 of 98
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Francob_169 (BK1),

Summary by clusters:

There are 12 clusters represented in this pham: GD1, GD2, UNK, CB, CG, CE, FC, BK1, BK2, BE2, BE1, GD3,

Info for manual annotations of cluster BE1:
•Start number 25 was manually annotated 45 times for cluster BE1.

Info for manual annotations of cluster BE2:
•Start number 25 was manually annotated 1 time for cluster BE2.

Info for manual annotations of cluster BK1:
•Start number 25 was manually annotated 1 time for cluster BK1.
•Start number 26 was manually annotated 6 times for cluster BK1.
•Start number 29 was manually annotated 16 times for cluster BK1.

•Start number 30 was manually annotated 1 time for cluster BK1.

Info for manual annotations of cluster BK2:
•Start number 15 was manually annotated 2 times for cluster BK2.
•Start number 26 was manually annotated 2 times for cluster BK2.

Info for manual annotations of cluster CB:
•Start number 28 was manually annotated 3 times for cluster CB.

Info for manual annotations of cluster CE:
•Start number 28 was manually annotated 2 times for cluster CE.

Info for manual annotations of cluster CG:
•Start number 28 was manually annotated 3 times for cluster CG.

Info for manual annotations of cluster FC:
•Start number 28 was manually annotated 11 times for cluster FC.

Info for manual annotations of cluster GD1:
•Start number 27 was manually annotated 2 times for cluster GD1.

Info for manual annotations of cluster GD2:
•Start number 28 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:
•Start number 28 was manually annotated 1 time for cluster GD3.

Gene Information:

Gene: A3Wally_245 Start: 136573, Stop: 137667, Start Num: 27
Candidate Starts for A3Wally_245:
(Start: 27 @136573 has 2 MA's), (63, 136786), (65, 136801), (69, 136828), (75, 136864), (86, 136984), (90, 137011), (106, 137122), (107, 137128), (121, 137254), (122, 137257), (169, 137602),

Gene: Anedea_232 Start: 111995, Stop: 112969, Start Num: 25
Candidate Starts for Anedea_232:
(24, 111986), (Start: 25 @111995 has 47 MA's), (39, 112067), (63, 112202), (64, 112208), (106, 112568), (107, 112574), (111, 112607), (120, 112688), (159, 112886), (162, 112898),

Gene: Angela_221 Start: 109751, Stop: 110782, Start Num: 25
Candidate Starts for Angela_221:
(12, 109682), (13, 109688), (16, 109697), (21, 109715), (Start: 25 @109751 has 47 MA's), (39, 109823), (47, 109877), (52, 109898), (64, 109964), (90, 110177), (100, 110264), (107, 110312), (111, 110345), (131, 110522), (140, 110594), (144, 110630), (162, 110711),

Gene: Annadreamy_154 Start: 85058, Stop: 85987, Start Num: 26
Candidate Starts for Annadreamy_154:
(Start: 26 @85058 has 8 MA's), (38, 85121), (39, 85133), (44, 85181), (80, 85397), (92, 85502), (98, 85556), (106, 85610), (107, 85616), (121, 85745), (124, 85781), (127, 85802), (147, 85907), (160, 85940),

Gene: Artu_154 Start: 106574, Stop: 107512, Start Num: 28
Candidate Starts for Artu_154:
(Start: 28 @106574 has 22 MA's), (62, 106769), (71, 106847), (105, 107126), (107, 107135), (126, 107315), (137, 107381),

Gene: Atuin_155 Start: 109227, Stop: 110180, Start Num: 28
Candidate Starts for Atuin_155:
(Start: 28 @109227 has 22 MA's), (62, 109419), (71, 109497), (77, 109554), (107, 109785), (116, 109884), (121, 109911), (136, 110013),

Gene: Bartholomune_219 Start: 109980, Stop: 110945, Start Num: 25
Candidate Starts for Bartholomune_219:
(Start: 25 @109980 has 47 MA's), (39, 110052), (69, 110229), (100, 110481), (106, 110523), (107, 110529), (111, 110562), (113, 110580), (115, 110628), (120, 110643), (133, 110757), (143, 110826), (151, 110853), (159, 110862), (161, 110871),

Gene: Belfort_167 Start: 91008, Stop: 92018, Start Num: 29
Candidate Starts for Belfort_167:
(Start: 29 @91008 has 16 MA's), (39, 91077), (67, 91233), (107, 91554), (121, 91683), (124, 91719), (158, 91926), (161, 91938),

Gene: Beuffert_160 Start: 89147, Stop: 90076, Start Num: 26
Candidate Starts for Beuffert_160:
(10, 89072), (Start: 26 @89147 has 8 MA's), (38, 89210), (39, 89222), (63, 89357), (92, 89591), (98, 89645), (107, 89705), (124, 89870), (127, 89891), (133, 89927), (147, 89996), (160, 90029),

Gene: Big4_227 Start: 130843, Stop: 131916, Start Num: 28
Candidate Starts for Big4_227:
(17, 130786), (Start: 28 @130843 has 22 MA's), (68, 131098), (69, 131101), (75, 131137), (79, 131182), (108, 131410), (109, 131413), (118, 131515), (121, 131536), (165, 131791),

Gene: BillNye_131 Start: 80702, Stop: 81835, Start Num: 15
Candidate Starts for BillNye_131:
(Start: 15 @80702 has 2 MA's), (Start: 25 @80747 has 47 MA's), (39, 80825), (52, 80900), (69, 81002), (72, 81026), (81, 81092), (107, 81305), (119, 81416), (124, 81470), (152, 81644), (170, 81755), (171, 81773),

Gene: Bloom_168 Start: 110490, Stop: 111422, Start Num: 28
Candidate Starts for Bloom_168:
(Start: 28 @110490 has 22 MA's), (50, 110628), (74, 110778), (77, 110817), (92, 110940), (107, 111051), (115, 111156), (117, 111162), (122, 111189), (123, 111195), (124, 111222),

Gene: BlueOtter_217 Start: 110101, Stop: 111066, Start Num: 25
Candidate Starts for BlueOtter_217:
(Start: 25 @110101 has 47 MA's), (39, 110173), (67, 110329), (105, 110641), (107, 110650), (111, 110683), (133, 110878), (143, 110947), (159, 110983), (161, 110992), (162, 110995),

Gene: Blueeyedbeauty_162 Start: 88815, Stop: 89744, Start Num: 26
Candidate Starts for Blueeyedbeauty_162:
(2, 88683), (4, 88689), (6, 88710), (7, 88716), (8, 88734), (10, 88740), (Start: 26 @88815 has 8 MA's), (38, 88878), (39, 88890), (63, 89025), (80, 89154), (92, 89259), (98, 89313), (107, 89373), (121, 89502), (124, 89538), (127, 89559), (147, 89664), (160, 89697),

Gene: Bmoc_223 Start: 110200, Stop: 111180, Start Num: 25
Candidate Starts for Bmoc_223:
(11, 110125), (16, 110146), (Start: 25 @110200 has 47 MA's), (39, 110272), (52, 110347), (59, 110368), (63, 110407), (64, 110413), (107, 110749), (109, 110764), (111, 110782), (159, 111097), (162, 111109),

Gene: BooTeria_161 Start: 106867, Stop: 107805, Start Num: 28
Candidate Starts for BooTeria_161:
(Start: 28 @106867 has 22 MA's), (58, 107038), (62, 107062), (71, 107140), (105, 107419), (107, 107428), (126, 107608), (137, 107674), (149, 107710),

Gene: Braelyn_215 Start: 109627, Stop: 110592, Start Num: 25
Candidate Starts for Braelyn_215:
(Start: 25 @109627 has 47 MA's), (39, 109699), (69, 109876), (100, 110128), (106, 110170), (107, 110176), (111, 110209), (115, 110275), (120, 110290), (133, 110404), (143, 110473), (151, 110500), (159, 110509), (161, 110518),

Gene: Cadmus_216 Start: 110922, Stop: 111893, Start Num: 25
Candidate Starts for Cadmus_216:
(9, 110844), (Start: 25 @110922 has 47 MA's), (39, 110994), (40, 111000), (51, 111066), (100, 111423), (107, 111471), (120, 111585), (150, 111798), (159, 111810),

Gene: Cece_214 Start: 131006, Stop: 132100, Start Num: 28
Candidate Starts for Cece_214:
(23, 130982), (Start: 28 @131006 has 22 MA's), (61, 131186), (63, 131219), (68, 131258), (75, 131297), (80, 131354), (104, 131543), (108, 131573), (109, 131576), (112, 131606), (120, 131681), (121, 131696), (122, 131699), (124, 131732), (128, 131756), (138, 131828), (155, 131921),

Gene: Chaewon_135 Start: 80704, Stop: 81819, Start Num: 25
Candidate Starts for Chaewon_135:
(Start: 25 @80704 has 47 MA's), (39, 80782), (45, 80833), (47, 80836), (51, 80854), (58, 80872), (69, 80959), (81, 81049), (94, 81160), (107, 81265), (118, 81373), (124, 81430), (129, 81460), (170, 81739),

Gene: Chilliams_159 Start: 100299, Stop: 101354, Start Num: 28
Candidate Starts for Chilliams_159:
(Start: 28 @100299 has 22 MA's), (31, 100305), (61, 100479), (62, 100491), (63, 100512), (64, 100518), (74, 100587), (82, 100668), (90, 100731), (94, 100752), (99, 100800), (107, 100857), (111, 100890),

Gene: Circinus_132 Start: 80670, Stop: 81803, Start Num: 15
Candidate Starts for Circinus_132:
(Start: 15 @80670 has 2 MA's), (Start: 25 @80715 has 47 MA's), (39, 80793), (52, 80868), (69, 80970), (72, 80994), (81, 81060), (107, 81273), (119, 81384), (124, 81438), (152, 81612), (170, 81723), (171, 81741),

Gene: Comrade_164 Start: 91210, Stop: 92220, Start Num: 29
Candidate Starts for Comrade_164:
(Start: 29 @91210 has 16 MA's), (39, 91279), (67, 91435), (107, 91756), (121, 91885), (124, 91921), (158, 92128), (161, 92140),

Gene: Coogler_216 Start: 110526, Stop: 111491, Start Num: 25

Candidate Starts for Coogler_216:
(Start: 25 @110526 has 47 MA's), (39, 110598), (67, 110754), (105, 111066), (107, 111075), (111, 111108), (133, 111303), (143, 111372), (159, 111408), (161, 111417), (162, 111420),

Gene: Cross_218 Start: 110746, Stop: 111711, Start Num: 25
Candidate Starts for Cross_218:
(Start: 25 @110746 has 47 MA's), (39, 110818), (67, 110974), (105, 111286), (107, 111295), (111, 111328), (133, 111523), (143, 111592), (159, 111628), (161, 111637), (162, 111640),

Gene: Cursive_221 Start: 110430, Stop: 111395, Start Num: 25
Candidate Starts for Cursive_221:
(Start: 25 @110430 has 47 MA's), (39, 110502), (67, 110658), (105, 110970), (107, 110979), (111, 111012), (133, 111207), (143, 111276), (159, 111312), (161, 111321), (162, 111324),

Gene: Daubenski_212 Start: 110817, Stop: 111794, Start Num: 25
Candidate Starts for Daubenski_212:
(9, 110739), (Start: 25 @110817 has 47 MA's), (39, 110889), (40, 110895), (51, 110961), (67, 111045), (100, 111318), (107, 111366), (120, 111480), (139, 111645), (159, 111711), (162, 111723),

Gene: Davielle_218 Start: 110025, Stop: 110990, Start Num: 25
Candidate Starts for Davielle_218:
(Start: 25 @110025 has 47 MA's), (39, 110097), (69, 110274), (100, 110526), (106, 110568), (107, 110574), (111, 110607), (115, 110673), (120, 110688), (133, 110802), (143, 110871), (151, 110898), (159, 110907), (161, 110916),

Gene: DeluluLabubu_174 Start: 91859, Stop: 92872, Start Num: 29
Candidate Starts for DeluluLabubu_174:
(Start: 29 @91859 has 16 MA's), (33, 91880), (39, 91928), (69, 92105), (107, 92405), (124, 92570), (129, 92600), (156, 92777), (158, 92780),

Gene: Dodo_243 Start: 136257, Stop: 137351, Start Num: 27
Candidate Starts for Dodo_243:
(Start: 27 @136257 has 2 MA's), (63, 136470), (65, 136485), (69, 136512), (75, 136548), (86, 136668), (90, 136695), (106, 136806), (107, 136812), (121, 136938), (122, 136941), (169, 137286),

Gene: Dorin_124 Start: 80878, Stop: 81957, Start Num: 28
Candidate Starts for Dorin_124:
(Start: 28 @80878 has 22 MA's), (35, 80926), (42, 80974), (43, 80989), (44, 80995), (48, 81013), (54, 81049), (66, 81121), (73, 81172), (81, 81232), (86, 81292), (107, 81439), (116, 81547), (119, 81556), (123, 81583), (124, 81610), (148, 81790), (154, 81814), (165, 81865),

Gene: DunneganBoMo_152 Start: 106136, Stop: 107074, Start Num: 28
Candidate Starts for DunneganBoMo_152:
(Start: 28 @106136 has 22 MA's), (62, 106331), (71, 106409), (105, 106688), (107, 106697), (126, 106877), (137, 106943), (149, 106979),

Gene: EGole_222 Start: 112476, Stop: 113450, Start Num: 25
Candidate Starts for EGole_222:
(Start: 25 @112476 has 47 MA's), (39, 112548), (67, 112704), (92, 112923), (105, 113016), (107, 113025), (145, 113340), (159, 113367), (162, 113379),

Gene: Eliot67_221 Start: 109796, Stop: 110761, Start Num: 25
Candidate Starts for Eliot67_221:

(Start: 25 @109796 has 47 MA's), (39, 109868), (69, 110045), (100, 110297), (106, 110339), (107, 110345), (111, 110378), (113, 110396), (115, 110444), (120, 110459), (133, 110573), (143, 110642), (151, 110669), (159, 110678), (161, 110687),

Gene: Ellewin_158 Start: 106240, Stop: 107178, Start Num: 28
Candidate Starts for Ellewin_158:
(Start: 28 @106240 has 22 MA's), (58, 106411), (62, 106435), (71, 106513), (105, 106792), (107, 106801), (126, 106981), (137, 107047), (149, 107083),

Gene: Emma1919_171 Start: 89918, Stop: 90925, Start Num: 29
Candidate Starts for Emma1919_171:
(Start: 29 @89918 has 16 MA's), (33, 89939), (39, 89987), (69, 90164), (105, 90455), (107, 90464), (121, 90593), (124, 90629), (126, 90647), (129, 90659), (156, 90830), (158, 90833),

Gene: Emmetator_155 Start: 106449, Stop: 107387, Start Num: 28
Candidate Starts for Emmetator_155:
(Start: 28 @106449 has 22 MA's), (58, 106620), (62, 106644), (71, 106722), (105, 107001), (107, 107010), (121, 107136), (126, 107190), (137, 107256), (149, 107292),

Gene: Erasmago_234 Start: 130894, Stop: 131955, Start Num: 28
Candidate Starts for Erasmago_234:
(Start: 28 @130894 has 22 MA's), (68, 131149), (89, 131329), (108, 131461), (109, 131464), (114, 131524), (121, 131587), (125, 131629), (127, 131644),

Gene: Evy_209 Start: 110921, Stop: 111886, Start Num: 25
Candidate Starts for Evy_209:
(Start: 25 @110921 has 47 MA's), (39, 110993), (67, 111149), (91, 111362), (92, 111368), (107, 111470), (111, 111503), (135, 111710), (143, 111767), (151, 111794), (159, 111803), (161, 111812),

Gene: Faust_160 Start: 90385, Stop: 91368, Start Num: 26
Candidate Starts for Faust_160:
(Start: 26 @90385 has 8 MA's), (39, 90460), (44, 90508), (107, 90943), (124, 91108), (128, 91132),

Gene: FloraSnap32_162 Start: 108905, Stop: 109837, Start Num: 28
Candidate Starts for FloraSnap32_162:
(Start: 28 @108905 has 22 MA's), (50, 109043), (74, 109193), (77, 109232), (84, 109286), (92, 109355), (107, 109466), (109, 109481), (115, 109571), (122, 109604), (124, 109637), (126, 109655),

Gene: Forrest_173 Start: 91510, Stop: 92523, Start Num: 29
Candidate Starts for Forrest_173:
(Start: 29 @91510 has 16 MA's), (33, 91531), (39, 91579), (69, 91756), (107, 92056), (124, 92221), (129, 92251), (156, 92428), (158, 92431),

Gene: Francesca_124 Start: 81793, Stop: 82872, Start Num: 28
Candidate Starts for Francesca_124:
(Start: 28 @81793 has 22 MA's), (35, 81841), (42, 81889), (43, 81904), (44, 81910), (48, 81928), (54, 81964), (66, 82036), (73, 82087), (81, 82147), (86, 82207), (107, 82354), (116, 82462), (119, 82471), (123, 82498), (124, 82525), (148, 82705), (154, 82729), (165, 82780),

Gene: Francob_169 Start: 90421, Stop: 91428, Start Num: 30
Candidate Starts for Francob_169:
(13, 90358), (14, 90361), (Start: 30 @90421 has 1 MA's), (33, 90442), (39, 90490), (45, 90541), (51, 90562), (75, 90703), (92, 90859), (107, 90967), (121, 91096), (124, 91132), (126, 91150), (156,

91336), (158, 91339),

Gene: FreddyDRoo_223 Start: 109796, Stop: 110761, Start Num: 25
Candidate Starts for FreddyDRoo_223:
(Start: 25 @109796 has 47 MA's), (39, 109868), (69, 110045), (100, 110297), (106, 110339), (107, 110345), (111, 110378), (113, 110396), (115, 110444), (120, 110459), (133, 110573), (143, 110642), (151, 110669), (159, 110678), (161, 110687),

Gene: FrostedClock_168 Start: 111057, Stop: 111989, Start Num: 28
Candidate Starts for FrostedClock_168:
(Start: 28 @111057 has 22 MA's), (50, 111195), (74, 111345), (77, 111384), (92, 111507), (107, 111618), (115, 111723), (117, 111729), (122, 111756), (123, 111762), (124, 111789),

Gene: Gilson_170 Start: 89880, Stop: 90887, Start Num: 29
Candidate Starts for Gilson_170:
(Start: 29 @89880 has 16 MA's), (33, 89901), (39, 89949), (69, 90126), (105, 90417), (107, 90426), (121, 90555), (124, 90591), (126, 90609), (129, 90621), (156, 90792), (158, 90795),

Gene: GoldenEssence_150 Start: 103906, Stop: 104838, Start Num: 28
Candidate Starts for GoldenEssence_150:
(Start: 28 @103906 has 22 MA's), (50, 104044), (74, 104194), (77, 104233), (92, 104356), (107, 104467), (109, 104482), (115, 104572), (117, 104578), (122, 104605), (123, 104611), (124, 104638),

Gene: Grayson_118 Start: 74391, Stop: 75455, Start Num: 28
Candidate Starts for Grayson_118:
(Start: 28 @74391 has 22 MA's), (83, 74775), (101, 74898), (107, 74946), (116, 75045), (121, 75072), (124, 75105), (163, 75312), (166, 75348),

Gene: HangryHippo_217 Start: 110101, Stop: 111066, Start Num: 25
Candidate Starts for HangryHippo_217:
(Start: 25 @110101 has 47 MA's), (39, 110173), (67, 110329), (105, 110641), (107, 110650), (111, 110683), (133, 110878), (143, 110947), (159, 110983), (161, 110992), (162, 110995),

Gene: Jada_170 Start: 90206, Stop: 91219, Start Num: 29
Candidate Starts for Jada_170:
(Start: 29 @90206 has 16 MA's), (33, 90227), (39, 90275), (69, 90452), (107, 90752), (124, 90917), (129, 90947), (156, 91124), (158, 91127),

Gene: Jay2Jay_224 Start: 111076, Stop: 112041, Start Num: 25
Candidate Starts for Jay2Jay_224:
(Start: 25 @111076 has 47 MA's), (39, 111148), (67, 111304), (91, 111517), (92, 111523), (107, 111625), (111, 111658), (135, 111865), (143, 111922), (151, 111949), (159, 111958), (161, 111967),

Gene: KSunshine22_157 Start: 107199, Stop: 108137, Start Num: 28
Candidate Starts for KSunshine22_157:
(Start: 28 @107199 has 22 MA's), (62, 107394), (71, 107472), (105, 107751), (107, 107760), (126, 107940), (137, 108006), (149, 108042),

Gene: Karp_161 Start: 90434, Stop: 91444, Start Num: 29
Candidate Starts for Karp_161:
(Start: 29 @90434 has 16 MA's), (39, 90503), (67, 90659), (107, 90980), (121, 91109), (124, 91145), (158, 91352), (161, 91364),

Gene: Kenrey_174 Start: 91221, Stop: 92234, Start Num: 29
Candidate Starts for Kenrey_174:
(Start: 29 @91221 has 16 MA's), (33, 91242), (39, 91290), (107, 91767), (124, 91932), (129, 91962), (156, 92139), (158, 92142),

Gene: Larnav_218 Start: 110595, Stop: 111560, Start Num: 25
Candidate Starts for Larnav_218:
(Start: 25 @110595 has 47 MA's), (39, 110667), (67, 110823), (105, 111135), (107, 111144), (111, 111177), (133, 111372), (143, 111441), (159, 111477), (161, 111486), (162, 111489),

Gene: Laure_166 Start: 101884, Stop: 102828, Start Num: 28
Candidate Starts for Laure_166:
(Start: 28 @101884 has 22 MA's), (50, 102022), (62, 102076), (63, 102097), (64, 102103), (70, 102151), (82, 102253), (86, 102289), (87, 102292), (107, 102439), (121, 102568), (122, 102571), (128, 102628), (130, 102637),

Gene: Leo04_219 Start: 111127, Stop: 112092, Start Num: 25
Candidate Starts for Leo04_219:
(Start: 25 @111127 has 47 MA's), (39, 111199), (67, 111355), (105, 111667), (107, 111676), (111, 111709), (133, 111904), (143, 111973), (159, 112009), (161, 112018), (162, 112021),

Gene: LeoJr_165 Start: 109835, Stop: 110788, Start Num: 28
Candidate Starts for LeoJr_165:
(Start: 28 @109835 has 22 MA's), (62, 110027), (71, 110105), (77, 110162), (107, 110393), (116, 110492), (121, 110519), (136, 110621),

Gene: Liandry_219 Start: 110503, Stop: 111468, Start Num: 25
Candidate Starts for Liandry_219:
(Start: 25 @110503 has 47 MA's), (39, 110575), (69, 110752), (100, 111004), (106, 111046), (107, 111052), (111, 111085), (113, 111103), (115, 111151), (120, 111166), (133, 111280), (143, 111349), (151, 111376), (159, 111385), (161, 111394),

Gene: LilMartin_218 Start: 109115, Stop: 110146, Start Num: 25
Candidate Starts for LilMartin_218:
(12, 109046), (13, 109052), (16, 109061), (21, 109079), (Start: 25 @109115 has 47 MA's), (39, 109187), (47, 109241), (52, 109262), (64, 109328), (90, 109541), (100, 109628), (107, 109676), (111, 109709), (131, 109886), (140, 109958), (144, 109994), (162, 110075),

Gene: LilSaint_220 Start: 110367, Stop: 111341, Start Num: 25
Candidate Starts for LilSaint_220:
(24, 110358), (Start: 25 @110367 has 47 MA's), (39, 110439), (63, 110574), (64, 110580), (106, 110940), (107, 110946), (111, 110979), (120, 111060), (159, 111258), (162, 111270),

Gene: Limpid_161 Start: 90371, Stop: 91300, Start Num: 26
Candidate Starts for Limpid_161:
(Start: 26 @90371 has 8 MA's), (38, 90434), (39, 90446), (44, 90494), (80, 90710), (92, 90815), (98, 90869), (106, 90923), (107, 90929), (121, 91058), (124, 91094), (127, 91115), (147, 91220), (160, 91253),

Gene: Lululemon_215 Start: 109482, Stop: 110447, Start Num: 25
Candidate Starts for Lululemon_215:
(Start: 25 @109482 has 47 MA's), (39, 109554), (67, 109710), (105, 110022), (107, 110031), (111, 110064), (133, 110259), (143, 110328), (159, 110364), (161, 110373), (162, 110376),

Gene: Marsus_221 Start: 110780, Stop: 111811, Start Num: 25
Candidate Starts for Marsus_221:
(12, 110711), (16, 110726), (21, 110744), (Start: 25 @110780 has 47 MA's), (39, 110852), (52, 110927), (63, 110987), (64, 110993), (90, 111206), (91, 111221), (96, 111248), (100, 111293), (107, 111341), (131, 111551), (140, 111623), (144, 111659), (162, 111740),

Gene: Maupel_171 Start: 89880, Stop: 90887, Start Num: 29
Candidate Starts for Maupel_171:
(Start: 29 @89880 has 16 MA's), (33, 89901), (39, 89949), (69, 90126), (105, 90417), (107, 90426), (121, 90555), (124, 90591), (126, 90609), (129, 90621), (156, 90792), (158, 90795),

Gene: MeganTheeKilla_170 Start: 89949, Stop: 90956, Start Num: 29
Candidate Starts for MeganTheeKilla_170:
(Start: 29 @89949 has 16 MA's), (33, 89970), (39, 90018), (69, 90195), (107, 90495), (121, 90624), (124, 90660), (126, 90678), (129, 90690), (156, 90861), (158, 90864),

Gene: Mildred21_228 Start: 108870, Stop: 109850, Start Num: 25
Candidate Starts for Mildred21_228:
(Start: 25 @108870 has 47 MA's), (36, 108924), (39, 108942), (52, 109017), (60, 109041), (63, 109077), (64, 109083), (77, 109188), (92, 109317), (107, 109419), (132, 109641), (141, 109707), (144, 109737), (151, 109761), (159, 109767),

Gene: Mimi_165 Start: 110115, Stop: 111047, Start Num: 28
Candidate Starts for Mimi_165:
(Start: 28 @110115 has 22 MA's), (50, 110253), (74, 110403), (77, 110442), (92, 110565), (107, 110676), (115, 110781), (117, 110787), (122, 110814), (123, 110820), (124, 110847),

Gene: Moab_168 Start: 92420, Stop: 93433, Start Num: 29
Candidate Starts for Moab_168:
(13, 92360), (14, 92363), (Start: 29 @92420 has 16 MA's), (39, 92489), (45, 92540), (107, 92966), (121, 93095), (124, 93131), (126, 93149), (129, 93161), (158, 93344),

Gene: MulchMansion_222 Start: 110749, Stop: 111780, Start Num: 25
Candidate Starts for MulchMansion_222:
(12, 110680), (13, 110686), (16, 110695), (21, 110713), (Start: 25 @110749 has 47 MA's), (39, 110821), (47, 110875), (52, 110896), (64, 110962), (90, 111175), (100, 111262), (107, 111310), (111, 111343), (131, 111520), (140, 111592), (144, 111628), (162, 111709),

Gene: Muntaha_139 Start: 79684, Stop: 80793, Start Num: 26
Candidate Starts for Muntaha_139:
(24, 79672), (Start: 26 @79684 has 8 MA's), (37, 79738), (38, 79741), (39, 79753), (40, 79759), (64, 79894), (81, 80020), (106, 80230), (107, 80236), (118, 80344), (124, 80401), (142, 80533), (168, 80695), (170, 80713),

Gene: Navo_213 Start: 108831, Stop: 109796, Start Num: 25
Candidate Starts for Navo_213:
(Start: 25 @108831 has 47 MA's), (39, 108903), (69, 109080), (100, 109332), (106, 109374), (107, 109380), (111, 109413), (113, 109431), (115, 109479), (120, 109494), (133, 109608), (143, 109677), (151, 109704), (159, 109713), (161, 109722),

Gene: NiceHouse_135 Start: 88021, Stop: 88899, Start Num: 28
Candidate Starts for NiceHouse_135:

(13, 87952), (18, 87964), (19, 87970), (20, 87976), (Start: 28 @88021 has 22 MA's), (32, 88036), (34, 88063), (53, 88174), (57, 88192), (85, 88429), (88, 88459), (95, 88492), (102, 88543), (103, 88552), (107, 88582), (113, 88633),

Gene: NootNoot_216 Start: 109348, Stop: 110313, Start Num: 25
Candidate Starts for NootNoot_216:
(Start: 25 @109348 has 47 MA's), (39, 109420), (69, 109597), (100, 109849), (106, 109891), (107, 109897), (111, 109930), (113, 109948), (115, 109996), (120, 110011), (133, 110125), (143, 110194), (151, 110221), (159, 110230), (161, 110239),

Gene: Nova53_124 Start: 82372, Stop: 83373, Start Num: 28
Candidate Starts for Nova53_124:
(Start: 28 @82372 has 22 MA's), (42, 82468), (48, 82507), (63, 82597), (64, 82603), (81, 82726), (93, 82828), (97, 82867), (99, 82873), (103, 82906), (106, 82930), (107, 82936), (116, 83041), (120, 83053), (123, 83077), (124, 83104), (125, 83110), (134, 83173), (148, 83257), (157, 83284),

Gene: PacManQ_215 Start: 109482, Stop: 110447, Start Num: 25
Candidate Starts for PacManQ_215:
(Start: 25 @109482 has 47 MA's), (39, 109554), (67, 109710), (105, 110022), (107, 110031), (111, 110064), (133, 110259), (143, 110328), (159, 110364), (161, 110373), (162, 110376),

Gene: Panchaali_154 Start: 106936, Stop: 107907, Start Num: 28
Candidate Starts for Panchaali_154:
(Start: 28 @106936 has 22 MA's), (49, 107071), (99, 107434), (107, 107491), (115, 107587), (153, 107812),

Gene: Paradiddles_211 Start: 111723, Stop: 112688, Start Num: 25
Candidate Starts for Paradiddles_211:
(Start: 25 @111723 has 47 MA's), (39, 111795), (69, 111972), (100, 112224), (106, 112266), (107, 112272), (111, 112305), (115, 112371), (120, 112386), (133, 112500), (143, 112569), (151, 112596), (159, 112605), (161, 112614),

Gene: Patbob_161 Start: 110620, Stop: 111552, Start Num: 28
Candidate Starts for Patbob_161:
(Start: 28 @110620 has 22 MA's), (50, 110758), (74, 110908), (77, 110947), (92, 111070), (107, 111181), (109, 111196), (115, 111286), (117, 111292), (122, 111319), (123, 111325), (124, 111352),

Gene: Patelgo_169 Start: 92898, Stop: 93911, Start Num: 29
Candidate Starts for Patelgo_169:
(13, 92838), (14, 92841), (Start: 29 @92898 has 16 MA's), (39, 92967), (45, 93018), (107, 93444), (121, 93573), (124, 93609), (126, 93627), (129, 93639), (158, 93822),

Gene: PauloDiaboli_245 Start: 133773, Stop: 134867, Start Num: 27
Candidate Starts for PauloDiaboli_245:
(Start: 27 @133773 has 2 MA's), (63, 133986), (65, 134001), (69, 134028), (75, 134064), (86, 134184), (90, 134211), (106, 134322), (107, 134328), (121, 134454), (122, 134457), (169, 134802),

Gene: Peebs_216 Start: 110566, Stop: 111531, Start Num: 25
Candidate Starts for Peebs_216:
(Start: 25 @110566 has 47 MA's), (39, 110638), (67, 110794), (105, 111106), (107, 111115), (111, 111148), (133, 111343), (143, 111412), (159, 111448), (161, 111457), (162, 111460),

Gene: Pepperwood_219 Start: 110798, Stop: 111763, Start Num: 25

Candidate Starts for Pepperwood_219:
(Start: 25 @110798 has 47 MA's), (39, 110870), (67, 111026), (105, 111338), (107, 111347), (111, 111380), (133, 111575), (143, 111644), (151, 111671), (159, 111680), (161, 111689), (162, 111692),

Gene: Peregrin_117 Start: 74368, Stop: 75456, Start Num: 28
Candidate Starts for Peregrin_117:
(Start: 28 @74368 has 22 MA's), (83, 74752), (84, 74755), (107, 74923), (124, 75082), (163, 75313),

Gene: Persimmon_222 Start: 109849, Stop: 110814, Start Num: 25
Candidate Starts for Persimmon_222:
(Start: 25 @109849 has 47 MA's), (39, 109921), (69, 110098), (100, 110350), (106, 110392), (107, 110398), (111, 110431), (113, 110449), (115, 110497), (120, 110512), (133, 110626), (143, 110695), (151, 110722), (159, 110731), (161, 110740),

Gene: Phrampa_155 Start: 111690, Stop: 112622, Start Num: 28
Candidate Starts for Phrampa_155:
(Start: 28 @111690 has 22 MA's), (70, 111957), (74, 111978), (77, 112017), (92, 112140), (99, 112194), (107, 112251), (109, 112266), (113, 112302), (115, 112356), (122, 112389), (124, 112422),

Gene: Phredrick_172 Start: 89845, Stop: 90858, Start Num: 29
Candidate Starts for Phredrick_172:
(Start: 29 @89845 has 16 MA's), (33, 89866), (39, 89914), (107, 90391), (124, 90556), (126, 90574), (129, 90586), (156, 90763), (158, 90766),

Gene: PinkiePie_219 Start: 110503, Stop: 111468, Start Num: 25
Candidate Starts for PinkiePie_219:
(Start: 25 @110503 has 47 MA's), (39, 110575), (69, 110752), (100, 111004), (106, 111046), (107, 111052), (111, 111085), (113, 111103), (115, 111151), (120, 111166), (133, 111280), (143, 111349), (151, 111376), (159, 111385), (161, 111394),

Gene: Racecar_166 Start: 111081, Stop: 112013, Start Num: 28
Candidate Starts for Racecar_166:
(Start: 28 @111081 has 22 MA's), (50, 111219), (74, 111369), (77, 111408), (92, 111531), (107, 111642), (115, 111747), (117, 111753), (122, 111780), (123, 111786), (124, 111813),

Gene: ReginaGlobina_168 Start: 111109, Stop: 112062, Start Num: 28
Candidate Starts for ReginaGlobina_168:
(Start: 28 @111109 has 22 MA's), (62, 111301), (71, 111379), (107, 111667), (121, 111793), (122, 111796),

Gene: Riptide_220 Start: 109525, Stop: 110499, Start Num: 25
Candidate Starts for Riptide_220:
(24, 109516), (Start: 25 @109525 has 47 MA's), (39, 109597), (63, 109732), (64, 109738), (106, 110098), (107, 110104), (111, 110137), (120, 110218), (159, 110416), (162, 110428),

Gene: Rockabye_165 Start: 101877, Stop: 102878, Start Num: 28
Candidate Starts for Rockabye_165:
(Start: 28 @101877 has 22 MA's), (31, 101883), (61, 102057), (62, 102069), (63, 102090), (64, 102096), (74, 102165), (76, 102171), (82, 102246), (90, 102309), (94, 102330), (107, 102435), (111, 102468),

Gene: SJReid_167 Start: 100899, Stop: 101945, Start Num: 28
Candidate Starts for SJReid_167:

(Start: 28 @100899 has 22 MA's), (31, 100905), (41, 100992), (59, 101073), (62, 101091), (64, 101118), (74, 101187), (84, 101277), (90, 101331), (107, 101457), (110, 101487), (122, 101589),

Gene: Samisti12_223 Start: 112392, Stop: 113357, Start Num: 25
Candidate Starts for Samisti12_223:
(Start: 25 @112392 has 47 MA's), (39, 112464), (67, 112620), (105, 112932), (107, 112941), (111, 112974), (133, 113169), (143, 113238), (159, 113274), (161, 113283), (162, 113286),

Gene: Scheme_222 Start: 112037, Stop: 113002, Start Num: 25
Candidate Starts for Scheme_222:
(Start: 25 @112037 has 47 MA's), (39, 112109), (67, 112265), (105, 112577), (107, 112586), (111, 112619), (133, 112814), (143, 112883), (159, 112919), (161, 112928), (162, 112931),

Gene: SeresaTree_162 Start: 89767, Stop: 90750, Start Num: 26
Candidate Starts for SeresaTree_162:
(Start: 26 @89767 has 8 MA's), (39, 89842), (44, 89890), (107, 90325), (124, 90490), (128, 90514),

Gene: Sham_160 Start: 91368, Stop: 92348, Start Num: 25
Candidate Starts for Sham_160:
(Start: 25 @91368 has 47 MA's), (39, 91446), (44, 91494), (107, 91935), (118, 92043), (121, 92064), (124, 92100), (164, 92289),

Gene: Shuckle_217 Start: 110925, Stop: 111890, Start Num: 25
Candidate Starts for Shuckle_217:
(Start: 25 @110925 has 47 MA's), (39, 110997), (67, 111153), (105, 111465), (107, 111474), (111, 111507), (133, 111702), (143, 111771), (151, 111798), (159, 111807),

Gene: SparkleGoddess_166 Start: 91221, Stop: 92228, Start Num: 29
Candidate Starts for SparkleGoddess_166:
(Start: 29 @91221 has 16 MA's), (39, 91290), (67, 91446), (107, 91767), (121, 91896), (124, 91932), (158, 92136), (161, 92148),

Gene: Squillium_222 Start: 110505, Stop: 111470, Start Num: 25
Candidate Starts for Squillium_222:
(Start: 25 @110505 has 47 MA's), (39, 110577), (69, 110754), (100, 111006), (106, 111048), (107, 111054), (111, 111087), (113, 111105), (115, 111153), (120, 111168), (133, 111282), (143, 111351), (151, 111378), (159, 111387), (161, 111396),

Gene: Stewart25555_152 Start: 107130, Stop: 108134, Start Num: 28
Candidate Starts for Stewart25555_152:
(Start: 28 @107130 has 22 MA's), (99, 107628), (107, 107685), (136, 107922), (146, 108012),

Gene: Stigma_165 Start: 91655, Stop: 92665, Start Num: 29
Candidate Starts for Stigma_165:
(Start: 29 @91655 has 16 MA's), (39, 91724), (67, 91880), (107, 92201), (121, 92330), (124, 92366), (158, 92573), (161, 92585),

Gene: Sushi23_219 Start: 111432, Stop: 112397, Start Num: 25
Candidate Starts for Sushi23_219:
(Start: 25 @111432 has 47 MA's), (39, 111504), (67, 111660), (105, 111972), (107, 111981), (111, 112014), (133, 112209), (143, 112278), (151, 112305), (159, 112314), (161, 112323), (162, 112326),

Gene: Talia1610_165 Start: 110492, Stop: 111424, Start Num: 28

Candidate Starts for Talia1610_165:
(Start: 28 @110492 has 22 MA's), (50, 110630), (74, 110780), (77, 110819), (92, 110942), (107, 111053), (115, 111158), (117, 111164), (122, 111191), (123, 111197), (124, 111224),

Gene: Targaryen_218 Start: 111605, Stop: 112570, Start Num: 25
Candidate Starts for Targaryen_218:
(Start: 25 @111605 has 47 MA's), (39, 111677), (67, 111833), (91, 112046), (92, 112052), (107, 112154), (111, 112187), (135, 112394), (143, 112451), (151, 112478), (159, 112487), (161, 112496),

Gene: Teutsch_218 Start: 111221, Stop: 112186, Start Num: 25
Candidate Starts for Teutsch_218:
(Start: 25 @111221 has 47 MA's), (39, 111293), (67, 111449), (105, 111761), (107, 111770), (111, 111803), (120, 111884), (133, 111998), (143, 112067), (151, 112094), (159, 112103), (161, 112112), (162, 112115),

Gene: Tomas_231 Start: 112309, Stop: 113268, Start Num: 25
Candidate Starts for Tomas_231:
(1, 112177), (3, 112183), (4, 112186), (5, 112204), (6, 112207), (7, 112213), (8, 112231), (11, 112243), (21, 112279), (22, 112285), (Start: 25 @112309 has 47 MA's), (36, 112363), (64, 112522), (69, 112558), (107, 112858), (159, 113185), (162, 113197),

Gene: Tribute_215 Start: 111386, Stop: 112351, Start Num: 25
Candidate Starts for Tribute_215:
(Start: 25 @111386 has 47 MA's), (39, 111458), (67, 111614), (105, 111926), (107, 111935), (111, 111968), (133, 112163), (143, 112232), (151, 112259), (159, 112268), (161, 112277), (162, 112280),

Gene: Trina_157 Start: 95691, Stop: 96605, Start Num: 28
Candidate Starts for Trina_157:
(Start: 28 @95691 has 22 MA's), (39, 95757), (46, 95808), (55, 95841), (70, 95949), (78, 96009), (83, 96057), (107, 96246), (140, 96513),

Gene: TunaTartare_166 Start: 92604, Stop: 93599, Start Num: 26
Candidate Starts for TunaTartare_166:
(Start: 26 @92604 has 8 MA's), (39, 92679), (44, 92727), (91, 93048), (107, 93168), (121, 93297), (124, 93333),

Gene: WaddleDee_148 Start: 105322, Stop: 106260, Start Num: 28
Candidate Starts for WaddleDee_148:
(Start: 28 @105322 has 22 MA's), (58, 105493), (62, 105517), (71, 105595), (105, 105874), (107, 105883), (126, 106063), (137, 106129), (149, 106165),

Gene: Wakanda_138 Start: 79625, Stop: 80734, Start Num: 26
Candidate Starts for Wakanda_138:
(24, 79613), (Start: 26 @79625 has 8 MA's), (37, 79679), (38, 79682), (39, 79694), (40, 79700), (64, 79835), (81, 79961), (106, 80171), (107, 80177), (118, 80285), (124, 80342), (142, 80474), (168, 80636),

Gene: Warpy_222 Start: 110514, Stop: 111479, Start Num: 25
Candidate Starts for Warpy_222:
(Start: 25 @110514 has 47 MA's), (39, 110586), (67, 110742), (91, 110955), (92, 110961), (107, 111063), (111, 111096), (135, 111303), (143, 111360), (151, 111387), (159, 111396), (161, 111405),

Gene: Watermoore_218 Start: 111744, Stop: 112709, Start Num: 25

Candidate Starts for Watermoore_218:
(Start: 25 @111744 has 47 MA's), (39, 111816), (67, 111972), (105, 112284), (107, 112293), (111, 112326), (133, 112521), (143, 112590), (159, 112626), (161, 112635), (162, 112638),

Gene: Weasels2_120 Start: 75722, Stop: 76783, Start Num: 28
Candidate Starts for Weasels2_120:
(Start: 28 @75722 has 22 MA's), (56, 75887), (83, 76106), (107, 76277), (123, 76412), (124, 76436), (167, 76697),

Gene: Westy_169 Start: 91970, Stop: 92977, Start Num: 29
Candidate Starts for Westy_169:
(Start: 29 @91970 has 16 MA's), (39, 92039), (67, 92195), (107, 92516), (121, 92645), (124, 92681), (158, 92885), (161, 92897),

Gene: WhereRU_218 Start: 110028, Stop: 110993, Start Num: 25
Candidate Starts for WhereRU_218:
(Start: 25 @110028 has 47 MA's), (39, 110100), (69, 110277), (100, 110529), (106, 110571), (107, 110577), (111, 110610), (115, 110676), (120, 110691), (133, 110805), (143, 110874), (151, 110901), (159, 110910), (161, 110919),

Gene: Zooman_211 Start: 129709, Stop: 130782, Start Num: 28
Candidate Starts for Zooman_211:
(17, 129652), (Start: 28 @129709 has 22 MA's), (68, 129964), (69, 129967), (75, 130003), (79, 130048), (108, 130276), (109, 130279), (118, 130381), (121, 130402), (165, 130657),