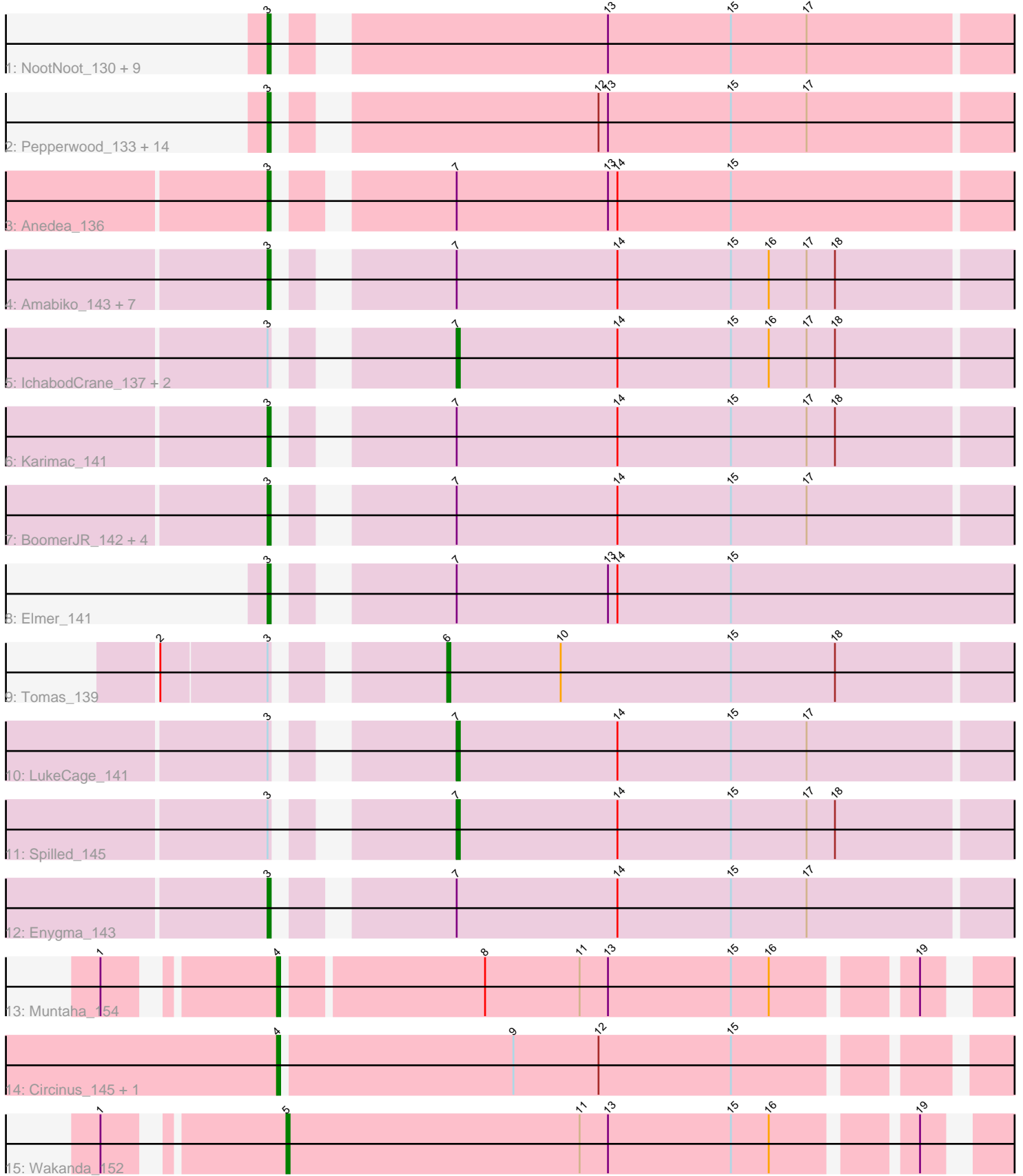


Pham 189773



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 189773 Report

This analysis was run 11/02/24 on database version 579.

Pham number 189773 has 52 members, 1 are drafts.

Phages represented in each track:

- Track 1 : NootNoot_130, WhereRU_132, PinkiePie_130, Liandry_133, Bartholomune_133, Braelyn_134, Paradiddles_129, Persimmon_133, Navo_131, Squillium_133
- Track 2 : Pepperwood_133, Samisti12_135, Teutsch_133, HangryHippo_133, Watermoore_133, Larnav_134, Leo04_135, Scheme_135, BlueOtter_133, Tribute_133, PacManQ_133, Peebs_132, Cross_134, Lululemon_133, Sushi23_133
- Track 3 : Anedea_136
- Track 4 : Amabiko_143, PumpkinSpice_144, Jollison_141, SaltySpittoon_142, KentuckyRacer_144, Birchlyn_141, JimJam_145, Quarant19_142
- Track 5 : IchabodCrane_137, MindFlayer_138, Wipeout_136
- Track 6 : Karimac_141
- Track 7 : BoomerJR_142, Yaboi_141, Stanimal_140, Genie2_142, Sollertia_141
- Track 8 : Elmer_141
- Track 9 : Tomas_139
- Track 10 : LukeCage_141
- Track 11 : Spilled_145
- Track 12 : Enygma_143
- Track 13 : Muntaha_154
- Track 14 : Circinus_145, BillNye_144
- Track 15 : Wakanda_152

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

The start number called the most often in the published annotations is 3, it was called in 41 of the 51 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Amabiko_143, Anedea_136, Bartholomune_133, Birchlyn_141, BlueOtter_133, BoomerJR_142, Braelyn_134, Cross_134, Elmer_141, Enygma_143, Genie2_142, HangryHippo_133, JimJam_145, Jollison_141, Karimac_141, KentuckyRacer_144, Larnav_134, Leo04_135, Liandry_133, Lululemon_133, Navo_131, NootNoot_130, PacManQ_133, Paradiddles_129, Peebs_132, Pepperwood_133, Persimmon_133, PinkiePie_130, PumpkinSpice_144, Quarant19_142, SaltySpittoon_142, Samisti12_135, Scheme_135, Sollertia_141, Squillium_133, Stanimal_140,

Sushi23_133, Teutsch_133, Tribute_133, Watermoore_133, WhereRU_132, Yaboi_141,

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

- IchabodCrane_137, LukeCage_141, MindFlayer_138, Spilled_145, Tomas_139, Wipeout_136,

Genes that do not have the "Most Annotated" start:

- BillNye_144, Circinus_145, Muntaha_154, Wakanda_152,

Summary by start number:

Start 3:

- Found in 48 of 52 (92.3%) of genes in pham
- Manual Annotations of this start: 41 of 51
- Called 87.5% of time when present
- Phage (with cluster) where this start called: Amabiko_143 (BE2), Anedea_136 (BE1), Bartholomune_133 (BE1), Birchlyn_141 (BE2), BlueOtter_133 (BE1), BoomerJR_142 (BE2), Braelyn_134 (BE1), Cross_134 (BE1), Elmer_141 (BE2), Enygma_143 (BE2), Genie2_142 (BE2), HangryHippo_133 (BE1), JimJam_145 (BE2), Jollison_141 (BE2), Karimac_141 (BE2), KentuckyRacer_144 (BE2), Larnav_134 (BE1), Leo04_135 (BE1), Liandry_133 (BE1), Lululemon_133 (BE1), Navo_131 (BE1), NootNoot_130 (BE1), PacManQ_133 (BE1), Paradiddles_129 (BE1), Peebs_132 (BE1), Pepperwood_133 (BE1), Persimmon_133 (BE1), PinkiePie_130 (BE1), PumpkinSpice_144 (BE2), Quarant19_142 (BE2), SaltySpittoon_142 (BE2), Samisti12_135 (BE1), Scheme_135 (BE1), Sollertia_141 (BE2), Squillium_133 (BE1), Stanimal_140 (BE2), Sushi23_133 (BE1), Teutsch_133 (BE1), Tribute_133 (BE1), Watermoore_133 (BE1), WhereRU_132 (BE1), Yaboi_141 (BE2),

Start 4:

- Found in 3 of 52 (5.8%) of genes in pham
- Manual Annotations of this start: 3 of 51
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BillNye_144 (BK2), Circinus_145 (BK2), Muntaha_154 (BK2),

Start 5:

- Found in 1 of 52 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 51
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Wakanda_152 (BK2),

Start 6:

- Found in 1 of 52 (1.9%) of genes in pham
- Manual Annotations of this start: 1 of 51
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Tomas_139 (BE2),

Start 7:

- Found in 22 of 52 (42.3%) of genes in pham
- Manual Annotations of this start: 5 of 51
- Called 22.7% of time when present

- Phage (with cluster) where this start called: IchabodCrane_137 (BE2), LukeCage_141 (BE2), MindFlayer_138 (BE2), Spilled_145 (BE2), Wipeout_136 (BE2),

Summary by clusters:

There are 3 clusters represented in this pham: BE2, BE1, BK2,

Info for manual annotations of cluster BE1:

- Start number 3 was manually annotated 25 times for cluster BE1.

Info for manual annotations of cluster BE2:

- Start number 3 was manually annotated 16 times for cluster BE2.
- Start number 6 was manually annotated 1 time for cluster BE2.
- Start number 7 was manually annotated 5 times for cluster BE2.

Info for manual annotations of cluster BK2:

- Start number 4 was manually annotated 3 times for cluster BK2.
- Start number 5 was manually annotated 1 time for cluster BK2.

Gene Information:

Gene: Amabiko_143 Start: 85395, Stop: 85643, Start Num: 3

Candidate Starts for Amabiko_143:

(Start: 3 @85395 has 41 MA's), (Start: 7 @85437 has 5 MA's), (14, 85488), (15, 85524), (16, 85536), (17, 85548), (18, 85557),

Gene: Anedea_136 Start: 83625, Stop: 83885, Start Num: 3

Candidate Starts for Anedea_136:

(Start: 3 @83625 has 41 MA's), (Start: 7 @83670 has 5 MA's), (13, 83718), (14, 83721), (15, 83757),

Gene: Bartholomune_133 Start: 83929, Stop: 84177, Start Num: 3

Candidate Starts for Bartholomune_133:

(Start: 3 @83929 has 41 MA's), (13, 84019), (15, 84058), (17, 84082),

Gene: BillNye_144 Start: 86005, Stop: 86232, Start Num: 4

Candidate Starts for BillNye_144:

(Start: 4 @86005 has 3 MA's), (9, 86077), (12, 86104), (15, 86146),

Gene: Birchlyn_141 Start: 83255, Stop: 83503, Start Num: 3

Candidate Starts for Birchlyn_141:

(Start: 3 @83255 has 41 MA's), (Start: 7 @83297 has 5 MA's), (14, 83348), (15, 83384), (16, 83396), (17, 83408), (18, 83417),

Gene: BlueOtter_133 Start: 86163, Stop: 86414, Start Num: 3

Candidate Starts for BlueOtter_133:

(Start: 3 @86163 has 41 MA's), (12, 86250), (13, 86253), (15, 86292), (17, 86316),

Gene: BoomerJR_142 Start: 85736, Stop: 85984, Start Num: 3

Candidate Starts for BoomerJR_142:

(Start: 3 @85736 has 41 MA's), (Start: 7 @85778 has 5 MA's), (14, 85829), (15, 85865), (17, 85889),

Gene: Braelyn_134 Start: 84800, Stop: 85048, Start Num: 3
Candidate Starts for Braelyn_134:
(Start: 3 @84800 has 41 MA's), (13, 84890), (15, 84929), (17, 84953),

Gene: Circinus_145 Start: 85973, Stop: 86200, Start Num: 4
Candidate Starts for Circinus_145:
(Start: 4 @85973 has 3 MA's), (9, 86045), (12, 86072), (15, 86114),

Gene: Cross_134 Start: 86164, Stop: 86415, Start Num: 3
Candidate Starts for Cross_134:
(Start: 3 @86164 has 41 MA's), (12, 86251), (13, 86254), (15, 86293), (17, 86317),

Gene: Elmer_141 Start: 86761, Stop: 87012, Start Num: 3
Candidate Starts for Elmer_141:
(Start: 3 @86761 has 41 MA's), (Start: 7 @86803 has 5 MA's), (13, 86851), (14, 86854), (15, 86890),

Gene: Enygma_143 Start: 87204, Stop: 87455, Start Num: 3
Candidate Starts for Enygma_143:
(Start: 3 @87204 has 41 MA's), (Start: 7 @87249 has 5 MA's), (14, 87300), (15, 87336), (17, 87360),

Gene: Genie2_142 Start: 85850, Stop: 86098, Start Num: 3
Candidate Starts for Genie2_142:
(Start: 3 @85850 has 41 MA's), (Start: 7 @85892 has 5 MA's), (14, 85943), (15, 85979), (17, 86003),

Gene: HangryHippo_133 Start: 86163, Stop: 86414, Start Num: 3
Candidate Starts for HangryHippo_133:
(Start: 3 @86163 has 41 MA's), (12, 86250), (13, 86253), (15, 86292), (17, 86316),

Gene: IchabodCrane_137 Start: 85138, Stop: 85344, Start Num: 7
Candidate Starts for IchabodCrane_137:
(Start: 3 @85096 has 41 MA's), (Start: 7 @85138 has 5 MA's), (14, 85189), (15, 85225), (16, 85237),
(17, 85249), (18, 85258),

Gene: JimJam_145 Start: 85917, Stop: 86165, Start Num: 3
Candidate Starts for JimJam_145:
(Start: 3 @85917 has 41 MA's), (Start: 7 @85959 has 5 MA's), (14, 86010), (15, 86046), (16, 86058),
(17, 86070), (18, 86079),

Gene: Jollison_141 Start: 85351, Stop: 85599, Start Num: 3
Candidate Starts for Jollison_141:
(Start: 3 @85351 has 41 MA's), (Start: 7 @85393 has 5 MA's), (14, 85444), (15, 85480), (16, 85492),
(17, 85504), (18, 85513),

Gene: Karimac_141 Start: 85634, Stop: 85882, Start Num: 3
Candidate Starts for Karimac_141:
(Start: 3 @85634 has 41 MA's), (Start: 7 @85676 has 5 MA's), (14, 85727), (15, 85763), (17, 85787),
(18, 85796),

Gene: KentuckyRacer_144 Start: 85782, Stop: 86030, Start Num: 3
Candidate Starts for KentuckyRacer_144:
(Start: 3 @85782 has 41 MA's), (Start: 7 @85824 has 5 MA's), (14, 85875), (15, 85911), (16, 85923),
(17, 85935), (18, 85944),

Gene: Larnav_134 Start: 86147, Stop: 86398, Start Num: 3

Candidate Starts for Larnav_134:

(Start: 3 @86147 has 41 MA's), (12, 86234), (13, 86237), (15, 86276), (17, 86300),

Gene: Leo04_135 Start: 86663, Stop: 86914, Start Num: 3

Candidate Starts for Leo04_135:

(Start: 3 @86663 has 41 MA's), (12, 86750), (13, 86753), (15, 86792), (17, 86816),

Gene: Liandry_133 Start: 84672, Stop: 84920, Start Num: 3

Candidate Starts for Liandry_133:

(Start: 3 @84672 has 41 MA's), (13, 84762), (15, 84801), (17, 84825),

Gene: LukeCage_141 Start: 86461, Stop: 86667, Start Num: 7

Candidate Starts for LukeCage_141:

(Start: 3 @86419 has 41 MA's), (Start: 7 @86461 has 5 MA's), (14, 86512), (15, 86548), (17, 86572),

Gene: Lululemon_133 Start: 85544, Stop: 85795, Start Num: 3

Candidate Starts for Lululemon_133:

(Start: 3 @85544 has 41 MA's), (12, 85631), (13, 85634), (15, 85673), (17, 85697),

Gene: MindFlayer_138 Start: 85045, Stop: 85251, Start Num: 7

Candidate Starts for MindFlayer_138:

(Start: 3 @85003 has 41 MA's), (Start: 7 @85045 has 5 MA's), (14, 85096), (15, 85132), (16, 85144), (17, 85156), (18, 85165),

Gene: Muntaha_154 Start: 85280, Stop: 85501, Start Num: 4

Candidate Starts for Muntaha_154:

(1, 85235), (Start: 4 @85280 has 3 MA's), (8, 85340), (11, 85370), (13, 85379), (15, 85418), (16, 85430), (19, 85469),

Gene: Navo_131 Start: 84462, Stop: 84710, Start Num: 3

Candidate Starts for Navo_131:

(Start: 3 @84462 has 41 MA's), (13, 84552), (15, 84591), (17, 84615),

Gene: NootNoot_130 Start: 83571, Stop: 83819, Start Num: 3

Candidate Starts for NootNoot_130:

(Start: 3 @83571 has 41 MA's), (13, 83661), (15, 83700), (17, 83724),

Gene: PacManQ_133 Start: 85544, Stop: 85795, Start Num: 3

Candidate Starts for PacManQ_133:

(Start: 3 @85544 has 41 MA's), (12, 85631), (13, 85634), (15, 85673), (17, 85697),

Gene: Paradiddles_129 Start: 85869, Stop: 86117, Start Num: 3

Candidate Starts for Paradiddles_129:

(Start: 3 @85869 has 41 MA's), (13, 85959), (15, 85998), (17, 86022),

Gene: Peebs_132 Start: 85960, Stop: 86211, Start Num: 3

Candidate Starts for Peebs_132:

(Start: 3 @85960 has 41 MA's), (12, 86047), (13, 86050), (15, 86089), (17, 86113),

Gene: Pepperwood_133 Start: 86090, Stop: 86341, Start Num: 3

Candidate Starts for Pepperwood_133:

(Start: 3 @86090 has 41 MA's), (12, 86177), (13, 86180), (15, 86219), (17, 86243),

Gene: Persimmon_133 Start: 83505, Stop: 83753, Start Num: 3

Candidate Starts for Persimmon_133:

(Start: 3 @83505 has 41 MA's), (13, 83595), (15, 83634), (17, 83658),

Gene: PinkiePie_130 Start: 84672, Stop: 84920, Start Num: 3

Candidate Starts for PinkiePie_130:

(Start: 3 @84672 has 41 MA's), (13, 84762), (15, 84801), (17, 84825),

Gene: PumpkinSpice_144 Start: 85959, Stop: 86207, Start Num: 3

Candidate Starts for PumpkinSpice_144:

(Start: 3 @85959 has 41 MA's), (Start: 7 @86001 has 5 MA's), (14, 86052), (15, 86088), (16, 86100), (17, 86112), (18, 86121),

Gene: Quaran19_142 Start: 85385, Stop: 85633, Start Num: 3

Candidate Starts for Quaran19_142:

(Start: 3 @85385 has 41 MA's), (Start: 7 @85427 has 5 MA's), (14, 85478), (15, 85514), (16, 85526), (17, 85538), (18, 85547),

Gene: SaltySpittoon_142 Start: 85398, Stop: 85646, Start Num: 3

Candidate Starts for SaltySpittoon_142:

(Start: 3 @85398 has 41 MA's), (Start: 7 @85440 has 5 MA's), (14, 85491), (15, 85527), (16, 85539), (17, 85551), (18, 85560),

Gene: Samisti12_135 Start: 87342, Stop: 87593, Start Num: 3

Candidate Starts for Samisti12_135:

(Start: 3 @87342 has 41 MA's), (12, 87429), (13, 87432), (15, 87471), (17, 87495),

Gene: Scheme_135 Start: 86745, Stop: 86996, Start Num: 3

Candidate Starts for Scheme_135:

(Start: 3 @86745 has 41 MA's), (12, 86832), (13, 86835), (15, 86874), (17, 86898),

Gene: Sollertia_141 Start: 85850, Stop: 86098, Start Num: 3

Candidate Starts for Sollertia_141:

(Start: 3 @85850 has 41 MA's), (Start: 7 @85892 has 5 MA's), (14, 85943), (15, 85979), (17, 86003),

Gene: Spilled_145 Start: 85510, Stop: 85716, Start Num: 7

Candidate Starts for Spilled_145:

(Start: 3 @85468 has 41 MA's), (Start: 7 @85510 has 5 MA's), (14, 85561), (15, 85597), (17, 85621), (18, 85630),

Gene: Squillium_133 Start: 84674, Stop: 84922, Start Num: 3

Candidate Starts for Squillium_133:

(Start: 3 @84674 has 41 MA's), (13, 84764), (15, 84803), (17, 84827),

Gene: Stanimal_140 Start: 85739, Stop: 85987, Start Num: 3

Candidate Starts for Stanimal_140:

(Start: 3 @85739 has 41 MA's), (Start: 7 @85781 has 5 MA's), (14, 85832), (15, 85868), (17, 85892),

Gene: Sushi23_133 Start: 86316, Stop: 86567, Start Num: 3

Candidate Starts for Sushi23_133:

(Start: 3 @86316 has 41 MA's), (12, 86403), (13, 86406), (15, 86445), (17, 86469),

Gene: Teutsch_133 Start: 86521, Stop: 86772, Start Num: 3

Candidate Starts for Teutsch_133:

(Start: 3 @86521 has 41 MA's), (12, 86608), (13, 86611), (15, 86650), (17, 86674),

Gene: Tomas_139 Start: 87574, Stop: 87783, Start Num: 6

Candidate Starts for Tomas_139:

(2, 87499), (Start: 3 @87532 has 41 MA's), (Start: 6 @87574 has 1 MA's), (10, 87610), (15, 87664), (18, 87697),

Gene: Tribute_133 Start: 86508, Stop: 86759, Start Num: 3

Candidate Starts for Tribute_133:

(Start: 3 @86508 has 41 MA's), (12, 86595), (13, 86598), (15, 86637), (17, 86661),

Gene: Wakanda_152 Start: 84956, Stop: 85180, Start Num: 5

Candidate Starts for Wakanda_152:

(1, 84908), (Start: 5 @84956 has 1 MA's), (11, 85049), (13, 85058), (15, 85097), (16, 85109), (19, 85148),

Gene: Watermoore_133 Start: 86735, Stop: 86986, Start Num: 3

Candidate Starts for Watermoore_133:

(Start: 3 @86735 has 41 MA's), (12, 86822), (13, 86825), (15, 86864), (17, 86888),

Gene: WhereRU_132 Start: 84257, Stop: 84505, Start Num: 3

Candidate Starts for WhereRU_132:

(Start: 3 @84257 has 41 MA's), (13, 84347), (15, 84386), (17, 84410),

Gene: Wipeout_136 Start: 85782, Stop: 85988, Start Num: 7

Candidate Starts for Wipeout_136:

(Start: 3 @85740 has 41 MA's), (Start: 7 @85782 has 5 MA's), (14, 85833), (15, 85869), (16, 85881), (17, 85893), (18, 85902),

Gene: Yaboi_141 Start: 85312, Stop: 85560, Start Num: 3

Candidate Starts for Yaboi_141:

(Start: 3 @85312 has 41 MA's), (Start: 7 @85354 has 5 MA's), (14, 85405), (15, 85441), (17, 85465),