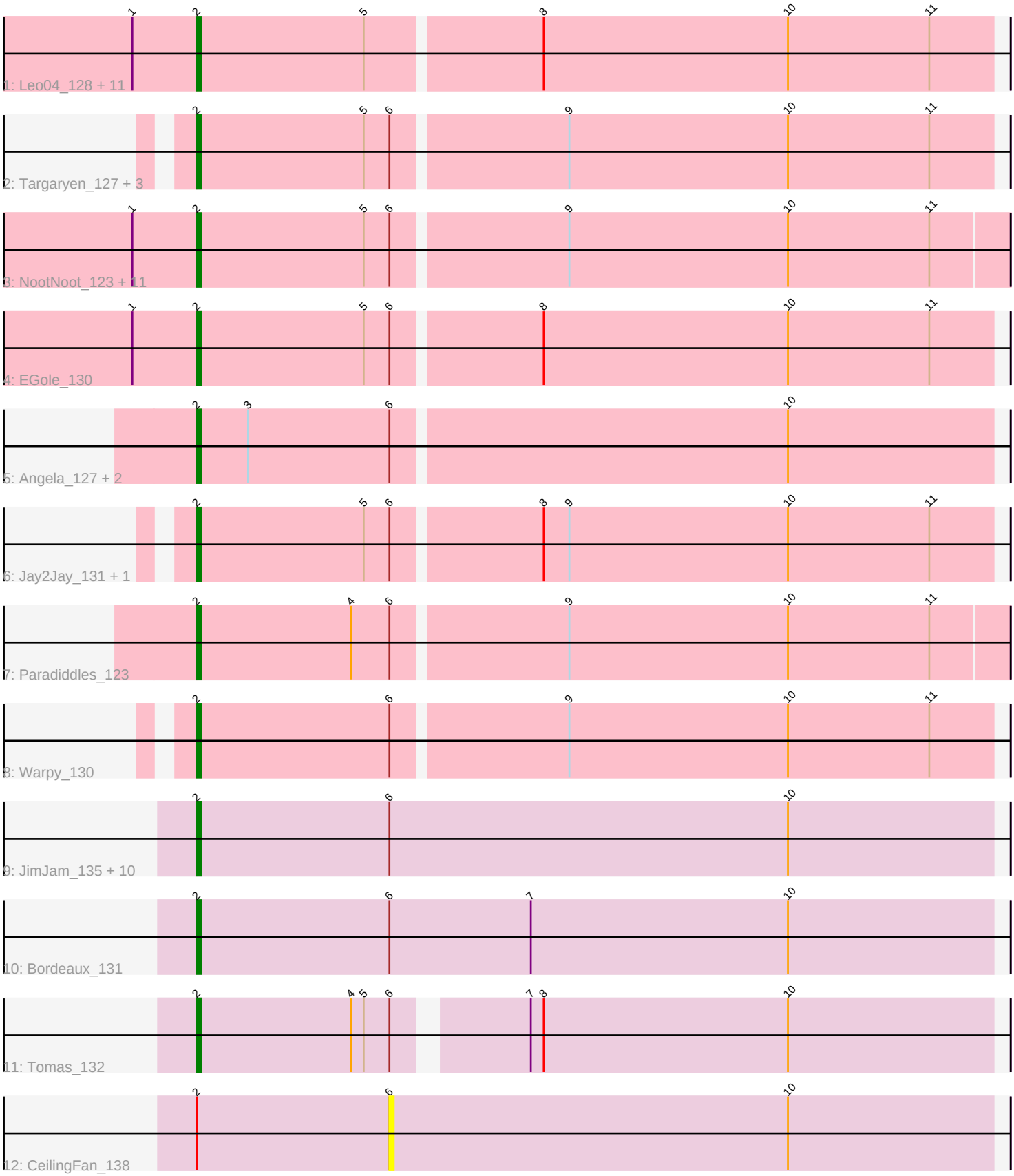
Pham 138004


1: Leo04_128 + 11
2: Targaryen_127 + 3
3: NootNoot_123 + 11
4: EGole_130
5: Angela_127 + 2
6: Jay2Jay_131 + 1
7: Paradiddles_123
8: Warpy_130
9: JimJam_135 + 10
10: Bordeaux_131
11: Tomas_132
12: CeilingFan_138

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 138004 Report

This analysis was run 04/28/24 on database version 559.

Pham number 138004 has 50 members, 9 are drafts.

Phages represented in each track:
• Track 1 : Leo04_128, BlueOtter_129, Peebs_125, Cross_127, Sushi23_126, Tribute_126, Lululemon_128, Cursive_125, Watermoore_126, HangryHippo_129, PacManQ_128, Pepperwood_126
• Track 2 : Targaryen_127, Evy_124, Daubenski_126, Anedea_129
• Track 3 : NootNoot_123, Bartholomune_126, Larnav_134, Squillium_126, Teutsch_126, Samisti12_128, Braelyn_127, Persimmon_126, Navo_128, WhereRU_128, PinkiePie_123, Liandry_126
• Track 4 : EGole_130
• Track 5 : Angela_127, MulchMansion_126, LilMartin_126
• Track 6 : Jay2Jay_131, Bmoc_130
• Track 7 : Paradiddles_123
• Track 8 : Warpy_130
• Track 9 : JimJam_135, Enygma_133, Battuta_131, TomSawyer_133, Amabiko_133, PumpkinSpice_134, Quaran19_132, Spelly_134, SaltySpitoon_132, Birchlyn_131, Spilled_135
• Track 10 : Bordeaux_131
• Track 11 : Tomas_132
• Track 12 : CeilingFan_138

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

The start number called the most often in the published annotations is 2, it was called in 41 of the 41 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Amabiko_133, Anedea_129, Angela_127, Bartholomune_126, Battuta_131, Birchlyn_131, BlueOtter_129, Bmoc_130, Bordeaux_131, Braelyn_127, Cross_127, Cursive_125, Daubenski_126, EGole_130, Enygma_133, Evy_124, HangryHippo_129, Jay2Jay_131, JimJam_135, Larnav_134, Leo04_128, Liandry_126, LilMartin_126, Lululemon_128, MulchMansion_126, Navo_128, NootNoot_123, PacManQ_128, Paradiddles_123, Peebs_125, Pepperwood_126, Persimmon_126, PinkiePie_123, PumpkinSpice_134, Quaran19_132, SaltySpitoon_132, Samisti12_128, Spelly_134, Spilled_135, Squillium_126, Sushi23_126, Targaryen_127, Teutsch_126, TomSawyer_133, Tomas_132,

Tribute_126, Warpy_130, Watermoore_126, WhereRU_128,

Genes that have the "Most Annotated" start but do not call it:
• CeilingFan_138,

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

Summary by start number:

Start 2:
• Found in 50 of 50 (100.0%) of genes in pham
• Manual Annotations of this start: 41 of 41
• Called 98.0% of time when present
• Phage (with cluster) where this start called: Amabiko_133 (BE2), Anedea_129 (BE1), Angela_127 (BE1), Bartholomune_126 (BE1), Battuta_131 (BE2), Birchlyn_131 (BE2), BlueOtter_129 (BE1), Bmoc_130 (BE1), Bordeaux_131 (BE2), Braelyn_127 (BE1), Cross_127 (BE1), Cursive_125 (BE1), Daubenski_126 (BE1), EGole_130 (BE1), Enygma_133 (BE2), Evy_124 (BE1), HangryHippo_129 (BE1), Jay2Jay_131 (BE1), JimJam_135 (BE2), Larnav_134 (BE1), Leo04_128 (BE1), Liandry_126 (BE1), LilMartin_126 (BE1), Lululemon_128 (BE1), MulchMansion_126 (BE1), Navo_128 (BE1), NootNoot_123 (BE1), PacManQ_128 (BE1), Paradiddles_123 (BE1), Peebs_125 (BE1), Pepperwood_126 (BE1), Persimmon_126 (BE1), PinkiePie_123 (BE1), PumpkinSpice_134 (BE2), Quaran19_132 (BE2), SaltySpitoon_132 (BE2), Samisti12_128 (BE1), Spelly_134 (BE2), Spilled_135 (BE2), Squillium_126 (BE1), Sushi23_126 (BE1), Targaryen_127 (BE1), Teutsch_126 (BE1), TomSawyer_133 (BE2), Tomas_132 (BE2), Tribute_126 (BE1), Warpy_130 (BE1), Watermoore_126 (BE1), WhereRU_128 (BE1),

Start 6:
• Found in 38 of 50 (76.0%) of genes in pham
• No Manual Annotations of this start.
• Called 2.6% of time when present
• Phage (with cluster) where this start called: CeilingFan_138 (BE2),

Summary by clusters:

There are 2 clusters represented in this pham: BE2, BE1,

Info for manual annotations of cluster BE1:
•Start number 2 was manually annotated 28 times for cluster BE1.

Info for manual annotations of cluster BE2:
•Start number 2 was manually annotated 13 times for cluster BE2.

Gene Information:

Gene: Amabiko_133 Start: 82517, Stop: 82702, Start Num: 2
Candidate Starts for Amabiko_133:
(Start: 2 @82517 has 41 MA's), (6, 82562), (10, 82655),

Gene: Anedea_129 Start: 82514, Stop: 82696, Start Num: 2
Candidate Starts for Anedea_129:
(Start: 2 @82514 has 41 MA's), (5, 82553), (6, 82559), (9, 82598), (10, 82649), (11, 82682),

Gene: Angela_127 Start: 82164, Stop: 82346, Start Num: 2
Candidate Starts for Angela_127:
(Start: 2 @82164 has 41 MA's), (3, 82176), (6, 82209), (10, 82299),

Gene: Bartholomune_126 Start: 81950, Stop: 82135, Start Num: 2
Candidate Starts for Bartholomune_126:
(1, 81935), (Start: 2 @81950 has 41 MA's), (5, 81989), (6, 81995), (9, 82034), (10, 82085), (11, 82118),

Gene: Battuta_131 Start: 82490, Stop: 82675, Start Num: 2
Candidate Starts for Battuta_131:
(Start: 2 @82490 has 41 MA's), (6, 82535), (10, 82628),

Gene: Birchlyn_131 Start: 80377, Stop: 80562, Start Num: 2
Candidate Starts for Birchlyn_131:
(Start: 2 @80377 has 41 MA's), (6, 80422), (10, 80515),

Gene: BlueOtter_129 Start: 84203, Stop: 84385, Start Num: 2
Candidate Starts for BlueOtter_129:
(1, 84188), (Start: 2 @84203 has 41 MA's), (5, 84242), (8, 84281), (10, 84338), (11, 84371),

Gene: Bmoc_130 Start: 82459, Stop: 82641, Start Num: 2
Candidate Starts for Bmoc_130:
(Start: 2 @82459 has 41 MA's), (5, 82498), (6, 82504), (8, 82537), (9, 82543), (10, 82594), (11, 82627),

Gene: Bordeaux_131 Start: 82645, Stop: 82830, Start Num: 2
Candidate Starts for Bordeaux_131:
(Start: 2 @82645 has 41 MA's), (6, 82690), (7, 82723), (10, 82783),

Gene: Braelyn_127 Start: 82836, Stop: 83021, Start Num: 2
Candidate Starts for Braelyn_127:
(1, 82821), (Start: 2 @82836 has 41 MA's), (5, 82875), (6, 82881), (9, 82920), (10, 82971), (11, 83004),

Gene: CeilingFan_138 Start: 82453, Stop: 82593, Start Num: 6
Candidate Starts for CeilingFan_138:
(Start: 2 @82408 has 41 MA's), (6, 82453), (10, 82546),

Gene: Cross_127 Start: 84204, Stop: 84386, Start Num: 2
Candidate Starts for Cross_127:
(1, 84189), (Start: 2 @84204 has 41 MA's), (5, 84243), (8, 84282), (10, 84339), (11, 84372),

Gene: Cursive_125 Start: 82413, Stop: 82595, Start Num: 2
Candidate Starts for Cursive_125:
(1, 82398), (Start: 2 @82413 has 41 MA's), (5, 82452), (8, 82491), (10, 82548), (11, 82581),

Gene: Daubenski_126 Start: 83639, Stop: 83818, Start Num: 2
Candidate Starts for Daubenski_126:

(Start: 2 @83639 has 41 MA's), (5, 83678), (6, 83684), (9, 83720), (10, 83771), (11, 83804),

Gene: EGole_130 Start: 85237, Stop: 85419, Start Num: 2
Candidate Starts for EGole_130:
(1, 85222), (Start: 2 @85237 has 41 MA's), (5, 85276), (6, 85282), (8, 85315), (10, 85372), (11, 85405),

Gene: Enygma_133 Start: 84329, Stop: 84514, Start Num: 2
Candidate Starts for Enygma_133:
(Start: 2 @84329 has 41 MA's), (6, 84374), (10, 84467),

Gene: Evy_124 Start: 83963, Stop: 84145, Start Num: 2
Candidate Starts for Evy_124:
(Start: 2 @83963 has 41 MA's), (5, 84002), (6, 84008), (9, 84047), (10, 84098), (11, 84131),

Gene: HangryHippo_129 Start: 84203, Stop: 84385, Start Num: 2
Candidate Starts for HangryHippo_129:
(1, 84188), (Start: 2 @84203 has 41 MA's), (5, 84242), (8, 84281), (10, 84338), (11, 84371),

Gene: Jay2Jay_131 Start: 84801, Stop: 84983, Start Num: 2
Candidate Starts for Jay2Jay_131:
(Start: 2 @84801 has 41 MA's), (5, 84840), (6, 84846), (8, 84879), (9, 84885), (10, 84936), (11, 84969),

Gene: JimJam_135 Start: 83039, Stop: 83224, Start Num: 2
Candidate Starts for JimJam_135:
(Start: 2 @83039 has 41 MA's), (6, 83084), (10, 83177),

Gene: Larnav_134 Start: 84187, Stop: 84369, Start Num: 2
Candidate Starts for Larnav_134:
(1, 84172), (Start: 2 @84187 has 41 MA's), (5, 84226), (6, 84232), (9, 84271), (10, 84322), (11, 84355),

Gene: Leo04_128 Start: 84703, Stop: 84885, Start Num: 2
Candidate Starts for Leo04_128:
(1, 84688), (Start: 2 @84703 has 41 MA's), (5, 84742), (8, 84781), (10, 84838), (11, 84871),

Gene: Liandry_126 Start: 82693, Stop: 82878, Start Num: 2
Candidate Starts for Liandry_126:
(1, 82678), (Start: 2 @82693 has 41 MA's), (5, 82732), (6, 82738), (9, 82777), (10, 82828), (11, 82861),

Gene: LilMartin_126 Start: 82066, Stop: 82248, Start Num: 2
Candidate Starts for LilMartin_126:
(Start: 2 @82066 has 41 MA's), (3, 82078), (6, 82111), (10, 82201),

Gene: Lululemon_128 Start: 83584, Stop: 83766, Start Num: 2
Candidate Starts for Lululemon_128:
(1, 83569), (Start: 2 @83584 has 41 MA's), (5, 83623), (8, 83662), (10, 83719), (11, 83752),

Gene: MulchMansion_126 Start: 82112, Stop: 82294, Start Num: 2
Candidate Starts for MulchMansion_126:
(Start: 2 @82112 has 41 MA's), (3, 82124), (6, 82157), (10, 82247),

Gene: Navo_128 Start: 82498, Stop: 82683, Start Num: 2
Candidate Starts for Navo_128:
(1, 82483), (Start: 2 @82498 has 41 MA's), (5, 82537), (6, 82543), (9, 82582), (10, 82633), (11, 82666),

Gene: NootNoot_123 Start: 81607, Stop: 81792, Start Num: 2
Candidate Starts for NootNoot_123:
(1, 81592), (Start: 2 @81607 has 41 MA's), (5, 81646), (6, 81652), (9, 81691), (10, 81742), (11, 81775),

Gene: PacManQ_128 Start: 83584, Stop: 83766, Start Num: 2
Candidate Starts for PacManQ_128:
(1, 83569), (Start: 2 @83584 has 41 MA's), (5, 83623), (8, 83662), (10, 83719), (11, 83752),

Gene: Paradiddles_123 Start: 83890, Stop: 84075, Start Num: 2
Candidate Starts for Paradiddles_123:
(Start: 2 @83890 has 41 MA's), (4, 83926), (6, 83935), (9, 83974), (10, 84025), (11, 84058),

Gene: Peebs_125 Start: 84000, Stop: 84182, Start Num: 2
Candidate Starts for Peebs_125:
(1, 83985), (Start: 2 @84000 has 41 MA's), (5, 84039), (8, 84078), (10, 84135), (11, 84168),

Gene: Pepperwood_126 Start: 84130, Stop: 84312, Start Num: 2
Candidate Starts for Pepperwood_126:
(1, 84115), (Start: 2 @84130 has 41 MA's), (5, 84169), (8, 84208), (10, 84265), (11, 84298),

Gene: Persimmon_126 Start: 81541, Stop: 81726, Start Num: 2
Candidate Starts for Persimmon_126:
(1, 81526), (Start: 2 @81541 has 41 MA's), (5, 81580), (6, 81586), (9, 81625), (10, 81676), (11, 81709),

Gene: PinkiePie_123 Start: 82693, Stop: 82878, Start Num: 2
Candidate Starts for PinkiePie_123:
(1, 82678), (Start: 2 @82693 has 41 MA's), (5, 82732), (6, 82738), (9, 82777), (10, 82828), (11, 82861),

Gene: PumpkinSpice_134 Start: 83081, Stop: 83266, Start Num: 2
Candidate Starts for PumpkinSpice_134:
(Start: 2 @83081 has 41 MA's), (6, 83126), (10, 83219),

Gene: Quaran19_132 Start: 82507, Stop: 82692, Start Num: 2
Candidate Starts for Quaran19_132:
(Start: 2 @82507 has 41 MA's), (6, 82552), (10, 82645),

Gene: SaltySpitoon_132 Start: 82520, Stop: 82705, Start Num: 2
Candidate Starts for SaltySpitoon_132:
(Start: 2 @82520 has 41 MA's), (6, 82565), (10, 82658),

Gene: Samisti12_128 Start: 85379, Stop: 85561, Start Num: 2
Candidate Starts for Samisti12_128:
(1, 85364), (Start: 2 @85379 has 41 MA's), (5, 85418), (6, 85424), (9, 85463), (10, 85514), (11, 85547),

Gene: Spelly_134 Start: 82472, Stop: 82657, Start Num: 2
Candidate Starts for Spelly_134:
(Start: 2 @82472 has 41 MA's), (6, 82517), (10, 82610),

Gene: Spilled_135 Start: 82590, Stop: 82775, Start Num: 2
Candidate Starts for Spilled_135:
(Start: 2 @82590 has 41 MA's), (6, 82635), (10, 82728),

Gene: Squillium_126 Start: 82695, Stop: 82880, Start Num: 2
Candidate Starts for Squillium_126:
(1, 82680), (Start: 2 @82695 has 41 MA's), (5, 82734), (6, 82740), (9, 82779), (10, 82830), (11, 82863),

Gene: Sushi23_126 Start: 84356, Stop: 84538, Start Num: 2
Candidate Starts for Sushi23_126:
(1, 84341), (Start: 2 @84356 has 41 MA's), (5, 84395), (8, 84434), (10, 84491), (11, 84524),

Gene: Targaryen_127 Start: 84943, Stop: 85125, Start Num: 2
Candidate Starts for Targaryen_127:
(Start: 2 @84943 has 41 MA's), (5, 84982), (6, 84988), (9, 85027), (10, 85078), (11, 85111),

Gene: Teutsch_126 Start: 84561, Stop: 84743, Start Num: 2
Candidate Starts for Teutsch_126:
(1, 84546), (Start: 2 @84561 has 41 MA's), (5, 84600), (6, 84606), (9, 84645), (10, 84696), (11, 84729),

Gene: TomSawyer_133 Start: 82538, Stop: 82723, Start Num: 2
Candidate Starts for TomSawyer_133:
(Start: 2 @82538 has 41 MA's), (6, 82583), (10, 82676),

Gene: Tomas_132 Start: 85544, Stop: 85723, Start Num: 2
Candidate Starts for Tomas_132:
(Start: 2 @85544 has 41 MA's), (4, 85580), (5, 85583), (6, 85589), (7, 85616), (8, 85619), (10, 85676),

Gene: Tribute_126 Start: 84548, Stop: 84730, Start Num: 2
Candidate Starts for Tribute_126:
(1, 84533), (Start: 2 @84548 has 41 MA's), (5, 84587), (8, 84626), (10, 84683), (11, 84716),

Gene: Warpy_130 Start: 84455, Stop: 84637, Start Num: 2
Candidate Starts for Warpy_130:
(Start: 2 @84455 has 41 MA's), (6, 84500), (9, 84539), (10, 84590), (11, 84623),

Gene: Watermoore_126 Start: 84775, Stop: 84957, Start Num: 2
Candidate Starts for Watermoore_126:
(1, 84760), (Start: 2 @84775 has 41 MA's), (5, 84814), (8, 84853), (10, 84910), (11, 84943),

Gene: WhereRU_128 Start: 82293, Stop: 82478, Start Num: 2
Candidate Starts for WhereRU_128:
(1, 82278), (Start: 2 @82293 has 41 MA's), (5, 82332), (6, 82338), (9, 82377), (10, 82428), (11, 82461),