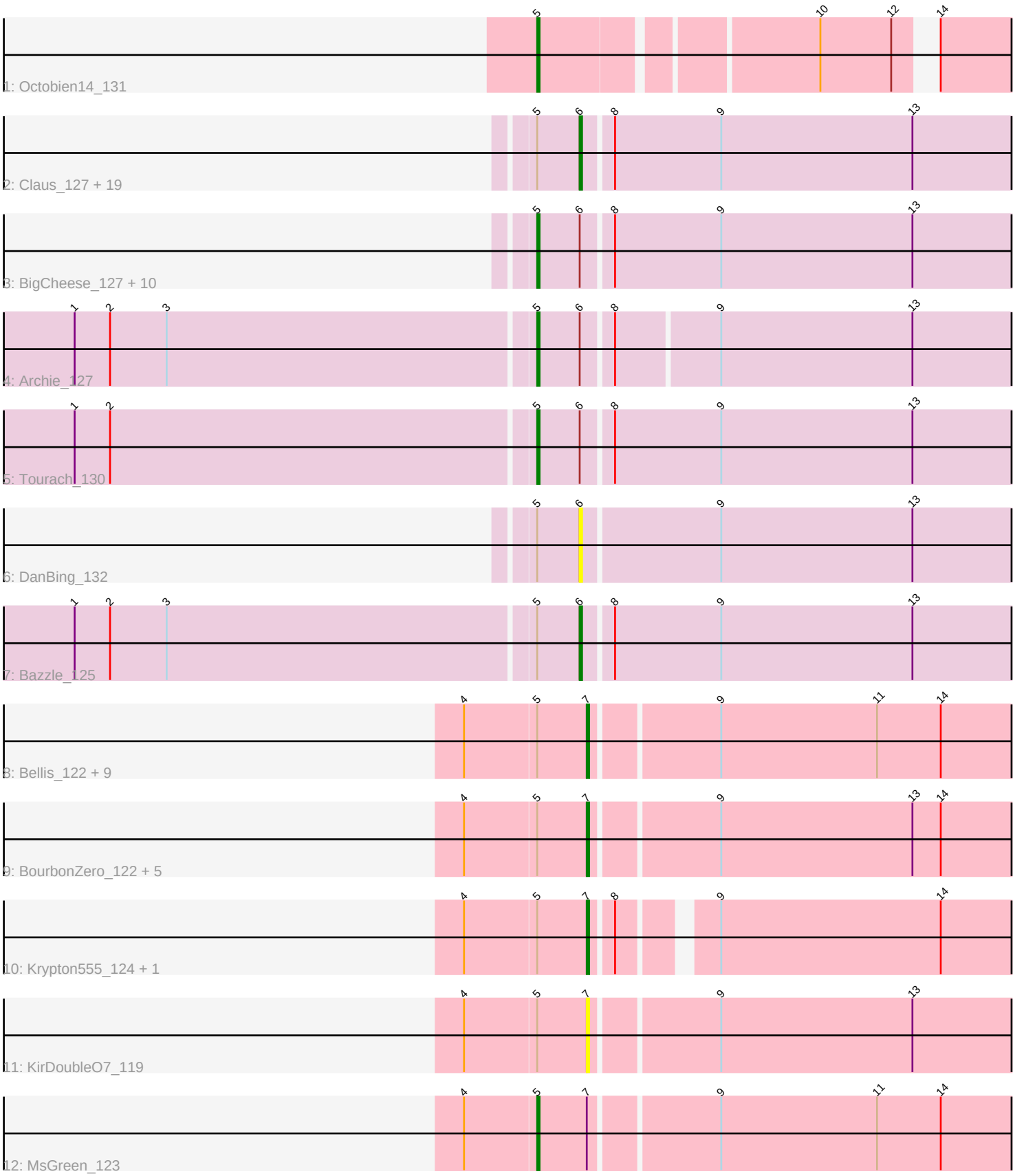
Pham 330907


1: Octobien14_131
2: Claus_127 + 19
3: BigCheese_127 + 10
4: Archie_127
5: Tourach_130
6: DanBing_132
7: Bazzle_125
8: Bellis_122 + 9
9: BourbonZero_122 + 5
10: Krypton555_124 + 1
11: KirDoubleO7_119
12: MsGreen_123

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 330907 Report

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

Pham number 330907 has 56 members, 13 are drafts.

Phages represented in each track:
• Track 1 : Octobien14_131
• Track 2 : Claus_127, Gardann_128, MkaliMitinis3_130, Lewan_130, ZhongYanYuan_125, Hiraya_128, GuuelaD_126, Underpass_121, Loadrie_129, ChengKai98_127, Soap141_129, Molivier_119, Vetrix_128, Rossetti_129, Miley16_128, DHan_130, Netyap_126, Sarshaun_130, Finemlucis_128, Zakai_130
• Track 3 : BigCheese_127, SoJulia_131, Faith1_126, Winky_128, Gabriela_128, Breezona_128, Crossroads_131, Itos_128, Nicholasp3_129, DrSeegs_126, Wigglewiggle_129
• Track 4 : Archie_127
• Track 5 : Tourach_130
• Track 6 : DanBing_132
• Track 7 : Bazzle_125
• Track 8 : Bellis_122, Kingsolomon_118, Clautastrophe_121, Finnry_120, TriFive_123, Nicholas_118, Jobypre_122, Samty_120, Jubie_122, Lumos_122
• Track 9 : BourbonZero_122, MiniMac_126, DuncansLeg_122, Lolly9_122, Ellson_120, MiniLon_126
• Track 10 : Krypton555_124, Whirlwind_122
• Track 11 : KirDoubleO7_119
• Track 12 : MsGreen_123

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

The start number called the most often in the published annotations is 7, it was called in 16 of the 43 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Bellis_122, BourbonZero_122, Clautastrophe_121, DuncansLeg_122, Ellson_120, Finnry_120, Jobypre_122, Jubie_122, Kingsolomon_118, KirDoubleO7_119, Krypton555_124, Lolly9_122, Lumos_122, MiniLon_126, MiniMac_126, Nicholas_118, Samty_120, TriFive_123, Whirlwind_122,

Genes that have the "Most Annotated" start but do not call it:
• MsGreen_123,

Genes that do not have the "Most Annotated" start:
• Archie_127, Bazzle_125, BigCheese_127, Breezona_128, ChengKai98_127, Claus_127, Crossroads_131, DHan_130, DanBing_132, DrSeegs_126, Faith1_126, Finemlucis_128, Gabriela_128, Gardann_128, GuuelaD_126, Hiraya_128, Itos_128, Lewan_130, Loadrie_129, Miley16_128, MkaliMitinis3_130, Molivier_119, Netyap_126, Nicholasp3_129, Octobien14_131, Rossetti_129, Sarshaun_130, SoJulia_131, Soap141_129, Tourach_130, Underpass_121, Vetrix_128, Wigglewiggle_129, Winky_128, Zakai_130, ZhongYanYuan_125,

Summary by start number:

Start 5:
• Found in 56 of 56 (100.0%) of genes in pham
• Manual Annotations of this start: 14 of 43
• Called 26.8% of time when present
• Phage (with cluster) where this start called: Archie_127 (L2), BigCheese_127 (L2), Breezona_128 (L2), Crossroads_131 (L2), DrSeegs_126 (L2), Faith1_126 (L2), Gabriela_128 (L2), Itos_128 (L2), MsGreen_123 (L3), Nicholasp3_129 (L2), Octobien14_131 (DU1), SoJulia_131 (L2), Tourach_130 (L2), Wigglewiggle_129 (L2), Winky_128 (L2),

Start 6:
• Found in 35 of 56 (62.5%) of genes in pham
• Manual Annotations of this start: 13 of 43
• Called 62.9% of time when present
• Phage (with cluster) where this start called: Bazzle_125 (L2), ChengKai98_127 (L2), Claus_127 (L2), DHan_130 (L2), DanBing_132 (L2), Finemlucis_128 (L2), Gardann_128 (L2), GuuelaD_126 (L2), Hiraya_128 (L2), Lewan_130 (L2), Loadrie_129 (L2), Miley16_128 (L2), MkaliMitinis3_130 (L2), Molivier_119 (L2), Netyap_126 (L2), Rossetti_129 (L2), Sarshaun_130 (L2), Soap141_129 (L2), Underpass_121 (L2), Vetrix_128 (L2), Zakai_130 (L2), ZhongYanYuan_125 (L2),

Start 7:
• Found in 20 of 56 (35.7%) of genes in pham
• Manual Annotations of this start: 16 of 43
• Called 95.0% of time when present
• Phage (with cluster) where this start called: Bellis_122 (L3), BourbonZero_122 (L3), Clautastrophe_121 (L3), DuncansLeg_122 (L3), Ellson_120 (L3), Finnry_120 (L3), Jobypre_122 (L3), Jubie_122 (L3), Kingsolomon_118 (L3), KirDoubleO7_119 (L3), Krypton555_124 (L3), Lolly9_122 (L3), Lumos_122 (L3), MiniLon_126 (L3), MiniMac_126 (L3), Nicholas_118 (L3), Samty_120 (L3), TriFive_123 (L3), Whirlwind_122 (L3),

Summary by clusters:

There are 3 clusters represented in this pham: DU1, L2, L3,

Info for manual annotations of cluster DU1:
•Start number 5 was manually annotated 1 time for cluster DU1.

Info for manual annotations of cluster L2:
•Start number 5 was manually annotated 12 times for cluster L2.
•Start number 6 was manually annotated 13 times for cluster L2.

Info for manual annotations of cluster L3:
•Start number 5 was manually annotated 1 time for cluster L3.
•Start number 7 was manually annotated 16 times for cluster L3.

Gene Information:

Gene: Archie_127 Start: 68037, Stop: 67777, Start Num: 5
Candidate Starts for Archie_127:
(1, 68229), (2, 68214), (3, 68190), (Start: 5 @68037 has 14 MA's), (Start: 6 @68019 has 13 MA's), (8, 68007), (9, 67965), (13, 67884),

Gene: Bazzle_125 Start: 68196, Stop: 67951, Start Num: 6
Candidate Starts for Bazzle_125:
(1, 68406), (2, 68391), (3, 68367), (Start: 5 @68214 has 14 MA's), (Start: 6 @68196 has 13 MA's), (8, 68184), (9, 68139), (13, 68058),

Gene: Bellis_122 Start: 66993, Stop: 66754, Start Num: 7
Candidate Starts for Bellis_122:
(4, 67044), (Start: 5 @67014 has 14 MA's), (Start: 7 @66993 has 16 MA's), (9, 66942), (11, 66876), (14, 66849),

Gene: BigCheese_127 Start: 67971, Stop: 67708, Start Num: 5
Candidate Starts for BigCheese_127:
(Start: 5 @67971 has 14 MA's), (Start: 6 @67953 has 13 MA's), (8, 67941), (9, 67896), (13, 67815),

Gene: BourbonZero_122 Start: 67259, Stop: 67020, Start Num: 7
Candidate Starts for BourbonZero_122:
(4, 67310), (Start: 5 @67280 has 14 MA's), (Start: 7 @67259 has 16 MA's), (9, 67208), (13, 67127), (14, 67115),

Gene: Breezona_128 Start: 68306, Stop: 68043, Start Num: 5
Candidate Starts for Breezona_128:
(Start: 5 @68306 has 14 MA's), (Start: 6 @68288 has 13 MA's), (8, 68276), (9, 68231), (13, 68150),

Gene: ChengKai98_127 Start: 67904, Stop: 67659, Start Num: 6
Candidate Starts for ChengKai98_127:
(Start: 5 @67922 has 14 MA's), (Start: 6 @67904 has 13 MA's), (8, 67892), (9, 67847), (13, 67766),

Gene: Claus_127 Start: 67856, Stop: 67611, Start Num: 6
Candidate Starts for Claus_127:
(Start: 5 @67874 has 14 MA's), (Start: 6 @67856 has 13 MA's), (8, 67844), (9, 67799), (13, 67718),

Gene: Clautastrophe_121 Start: 67103, Stop: 66864, Start Num: 7
Candidate Starts for Clautastrophe_121:
(4, 67154), (Start: 5 @67124 has 14 MA's), (Start: 7 @67103 has 16 MA's), (9, 67052), (11, 66986), (14, 66959),

Gene: Crossroads_131 Start: 68238, Stop: 67975, Start Num: 5
Candidate Starts for Crossroads_131:
(Start: 5 @68238 has 14 MA's), (Start: 6 @68220 has 13 MA's), (8, 68208), (9, 68163), (13, 68082),

Gene: DHan_130 Start: 68359, Stop: 68114, Start Num: 6
Candidate Starts for DHan_130:
(Start: 5 @68377 has 14 MA's), (Start: 6 @68359 has 13 MA's), (8, 68347), (9, 68302), (13, 68221),

Gene: DanBing_132 Start: 68654, Stop: 68409, Start Num: 6
Candidate Starts for DanBing_132:
(Start: 5 @68672 has 14 MA's), (Start: 6 @68654 has 13 MA's), (9, 68597), (13, 68516),

Gene: DrSeegs_126 Start: 68306, Stop: 68043, Start Num: 5
Candidate Starts for DrSeegs_126:
(Start: 5 @68306 has 14 MA's), (Start: 6 @68288 has 13 MA's), (8, 68276), (9, 68231), (13, 68150),

Gene: DuncansLeg_122 Start: 67285, Stop: 67046, Start Num: 7
Candidate Starts for DuncansLeg_122:
(4, 67336), (Start: 5 @67306 has 14 MA's), (Start: 7 @67285 has 16 MA's), (9, 67234), (13, 67153), (14, 67141),

Gene: Ellson_120 Start: 67541, Stop: 67302, Start Num: 7
Candidate Starts for Ellson_120:
(4, 67592), (Start: 5 @67562 has 14 MA's), (Start: 7 @67541 has 16 MA's), (9, 67490), (13, 67409), (14, 67397),

Gene: Faith1_126 Start: 67614, Stop: 67351, Start Num: 5
Candidate Starts for Faith1_126:
(Start: 5 @67614 has 14 MA's), (Start: 6 @67596 has 13 MA's), (8, 67584), (9, 67539), (13, 67458),

Gene: Finemlucis_128 Start: 69047, Stop: 68802, Start Num: 6
Candidate Starts for Finemlucis_128:
(Start: 5 @69065 has 14 MA's), (Start: 6 @69047 has 13 MA's), (8, 69035), (9, 68990), (13, 68909),

Gene: Finnry_120 Start: 67341, Stop: 67102, Start Num: 7
Candidate Starts for Finnry_120:
(4, 67392), (Start: 5 @67362 has 14 MA's), (Start: 7 @67341 has 16 MA's), (9, 67290), (11, 67224), (14, 67197),

Gene: Gabriela_128 Start: 67402, Stop: 67139, Start Num: 5
Candidate Starts for Gabriela_128:
(Start: 5 @67402 has 14 MA's), (Start: 6 @67384 has 13 MA's), (8, 67372), (9, 67327), (13, 67246),

Gene: Gardann_128 Start: 68061, Stop: 67816, Start Num: 6
Candidate Starts for Gardann_128:
(Start: 5 @68079 has 14 MA's), (Start: 6 @68061 has 13 MA's), (8, 68049), (9, 68004), (13, 67923),

Gene: GuuelaD_126 Start: 67948, Stop: 67703, Start Num: 6
Candidate Starts for GuuelaD_126:
(Start: 5 @67966 has 14 MA's), (Start: 6 @67948 has 13 MA's), (8, 67936), (9, 67891), (13, 67810),

Gene: Hiraya_128 Start: 68126, Stop: 67878, Start Num: 6
Candidate Starts for Hiraya_128:
(Start: 5 @68144 has 14 MA's), (Start: 6 @68126 has 13 MA's), (8, 68111), (9, 68066), (13, 67985),

Gene: Itos_128 Start: 66520, Stop: 66257, Start Num: 5

Candidate Starts for Itos_128:
(Start: 5 @66520 has 14 MA's), (Start: 6 @66502 has 13 MA's), (8, 66490), (9, 66445), (13, 66364),

Gene: Jobypre_122 Start: 67101, Stop: 66862, Start Num: 7
Candidate Starts for Jobypre_122:
(4, 67152), (Start: 5 @67122 has 14 MA's), (Start: 7 @67101 has 16 MA's), (9, 67050), (11, 66984), (14, 66957),

Gene: Jubie_122 Start: 67236, Stop: 66997, Start Num: 7
Candidate Starts for Jubie_122:
(4, 67287), (Start: 5 @67257 has 14 MA's), (Start: 7 @67236 has 16 MA's), (9, 67185), (11, 67119), (14, 67092),

Gene: Kingsolomon_118 Start: 67097, Stop: 66858, Start Num: 7
Candidate Starts for Kingsolomon_118:
(4, 67148), (Start: 5 @67118 has 14 MA's), (Start: 7 @67097 has 16 MA's), (9, 67046), (11, 66980), (14, 66953),

Gene: KirDoubleO7_119 Start: 67232, Stop: 66993, Start Num: 7
Candidate Starts for KirDoubleO7_119:
(4, 67283), (Start: 5 @67253 has 14 MA's), (Start: 7 @67232 has 16 MA's), (9, 67181), (13, 67100),

Gene: Krypton555_124 Start: 67480, Stop: 67250, Start Num: 7
Candidate Starts for Krypton555_124:
(4, 67531), (Start: 5 @67501 has 14 MA's), (Start: 7 @67480 has 16 MA's), (8, 67471), (9, 67438), (14, 67345),

Gene: Lewan_130 Start: 68579, Stop: 68334, Start Num: 6
Candidate Starts for Lewan_130:
(Start: 5 @68597 has 14 MA's), (Start: 6 @68579 has 13 MA's), (8, 68567), (9, 68522), (13, 68441),

Gene: Loadrie_129 Start: 68611, Stop: 68366, Start Num: 6
Candidate Starts for Loadrie_129:
(Start: 5 @68629 has 14 MA's), (Start: 6 @68611 has 13 MA's), (8, 68599), (9, 68554), (13, 68473),

Gene: Lolly9_122 Start: 67634, Stop: 67395, Start Num: 7
Candidate Starts for Lolly9_122:
(4, 67685), (Start: 5 @67655 has 14 MA's), (Start: 7 @67634 has 16 MA's), (9, 67583), (13, 67502), (14, 67490),

Gene: Lumos_122 Start: 67098, Stop: 66859, Start Num: 7
Candidate Starts for Lumos_122:
(4, 67149), (Start: 5 @67119 has 14 MA's), (Start: 7 @67098 has 16 MA's), (9, 67047), (11, 66981), (14, 66954),

Gene: Miley16_128 Start: 68288, Stop: 68043, Start Num: 6
Candidate Starts for Miley16_128:
(Start: 5 @68306 has 14 MA's), (Start: 6 @68288 has 13 MA's), (8, 68276), (9, 68231), (13, 68150),

Gene: MiniLon_126 Start: 67635, Stop: 67396, Start Num: 7
Candidate Starts for MiniLon_126:
(4, 67686), (Start: 5 @67656 has 14 MA's), (Start: 7 @67635 has 16 MA's), (9, 67584), (13, 67503), (14, 67491),

Gene: MiniMac_126 Start: 67637, Stop: 67398, Start Num: 7
Candidate Starts for MiniMac_126:
(4, 67688), (Start: 5 @67658 has 14 MA's), (Start: 7 @67637 has 16 MA's), (9, 67586), (13, 67505), (14, 67493),

Gene: MkaliMitinis3_130 Start: 67984, Stop: 67739, Start Num: 6
Candidate Starts for MkaliMitinis3_130:
(Start: 5 @68002 has 14 MA's), (Start: 6 @67984 has 13 MA's), (8, 67972), (9, 67927), (13, 67846),

Gene: Molivier_119 Start: 63181, Stop: 62936, Start Num: 6
Candidate Starts for Molivier_119:
(Start: 5 @63199 has 14 MA's), (Start: 6 @63181 has 13 MA's), (8, 63169), (9, 63124), (13, 63043),

Gene: MsGreen_123 Start: 67121, Stop: 66861, Start Num: 5
Candidate Starts for MsGreen_123:
(4, 67151), (Start: 5 @67121 has 14 MA's), (Start: 7 @67100 has 16 MA's), (9, 67049), (11, 66983), (14, 66956),

Gene: Netyap_126 Start: 68002, Stop: 67757, Start Num: 6
Candidate Starts for Netyap_126:
(Start: 5 @68020 has 14 MA's), (Start: 6 @68002 has 13 MA's), (8, 67990), (9, 67945), (13, 67864),

Gene: Nicholas_118 Start: 67097, Stop: 66858, Start Num: 7
Candidate Starts for Nicholas_118:
(4, 67148), (Start: 5 @67118 has 14 MA's), (Start: 7 @67097 has 16 MA's), (9, 67046), (11, 66980), (14, 66953),

Gene: Nicholasp3_129 Start: 68079, Stop: 67816, Start Num: 5
Candidate Starts for Nicholasp3_129:
(Start: 5 @68079 has 14 MA's), (Start: 6 @68061 has 13 MA's), (8, 68049), (9, 68004), (13, 67923),

Gene: Octobien14_131 Start: 69849, Stop: 69610, Start Num: 5
Candidate Starts for Octobien14_131:
(Start: 5 @69849 has 14 MA's), (10, 69741), (12, 69711), (14, 69702),

Gene: Rossetti_129 Start: 68236, Stop: 67991, Start Num: 6
Candidate Starts for Rossetti_129:
(Start: 5 @68254 has 14 MA's), (Start: 6 @68236 has 13 MA's), (8, 68224), (9, 68179), (13, 68098),

Gene: Samty_120 Start: 67084, Stop: 66845, Start Num: 7
Candidate Starts for Samty_120:
(4, 67135), (Start: 5 @67105 has 14 MA's), (Start: 7 @67084 has 16 MA's), (9, 67033), (11, 66967), (14, 66940),

Gene: Sarshaun_130 Start: 68955, Stop: 68710, Start Num: 6
Candidate Starts for Sarshaun_130:
(Start: 5 @68973 has 14 MA's), (Start: 6 @68955 has 13 MA's), (8, 68943), (9, 68898), (13, 68817),

Gene: SoJulia_131 Start: 70082, Stop: 69819, Start Num: 5
Candidate Starts for SoJulia_131:
(Start: 5 @70082 has 14 MA's), (Start: 6 @70064 has 13 MA's), (8, 70052), (9, 70007), (13, 69926),

Gene: Soap141_129 Start: 68955, Stop: 68710, Start Num: 6
Candidate Starts for Soap141_129:
(Start: 5 @68973 has 14 MA's), (Start: 6 @68955 has 13 MA's), (8, 68943), (9, 68898), (13, 68817),

Gene: Tourach_130 Start: 69507, Stop: 69244, Start Num: 5
Candidate Starts for Tourach_130:
(1, 69699), (2, 69684), (Start: 5 @69507 has 14 MA's), (Start: 6 @69489 has 13 MA's), (8, 69477), (9, 69432), (13, 69351),

Gene: TriFive_123 Start: 67214, Stop: 66975, Start Num: 7
Candidate Starts for TriFive_123:
(4, 67265), (Start: 5 @67235 has 14 MA's), (Start: 7 @67214 has 16 MA's), (9, 67163), (11, 67097), (14, 67070),

Gene: Underpass_121 Start: 63101, Stop: 62856, Start Num: 6
Candidate Starts for Underpass_121:
(Start: 5 @63119 has 14 MA's), (Start: 6 @63101 has 13 MA's), (8, 63089), (9, 63044), (13, 62963),

Gene: Vetrix_128 Start: 68598, Stop: 68353, Start Num: 6
Candidate Starts for Vetrix_128:
(Start: 5 @68616 has 14 MA's), (Start: 6 @68598 has 13 MA's), (8, 68586), (9, 68541), (13, 68460),

Gene: Whirlwind_122 Start: 67361, Stop: 67131, Start Num: 7
Candidate Starts for Whirlwind_122:
(4, 67412), (Start: 5 @67382 has 14 MA's), (Start: 7 @67361 has 16 MA's), (8, 67352), (9, 67319), (14, 67226),

Gene: Wigglewiggle_129 Start: 68212, Stop: 67949, Start Num: 5
Candidate Starts for Wigglewiggle_129:
(Start: 5 @68212 has 14 MA's), (Start: 6 @68194 has 13 MA's), (8, 68182), (9, 68137), (13, 68056),

Gene: Winky_128 Start: 68307, Stop: 68044, Start Num: 5
Candidate Starts for Winky_128:
(Start: 5 @68307 has 14 MA's), (Start: 6 @68289 has 13 MA's), (8, 68277), (9, 68232), (13, 68151),

Gene: Zakai_130 Start: 67999, Stop: 67754, Start Num: 6
Candidate Starts for Zakai_130:
(Start: 5 @68017 has 14 MA's), (Start: 6 @67999 has 13 MA's), (8, 67987), (9, 67942), (13, 67861),

Gene: ZhongYanYuan_125 Start: 67479, Stop: 67234, Start Num: 6
Candidate Starts for ZhongYanYuan_125:
(Start: 5 @67497 has 14 MA's), (Start: 6 @67479 has 13 MA's), (8, 67467), (9, 67422), (13, 67341),