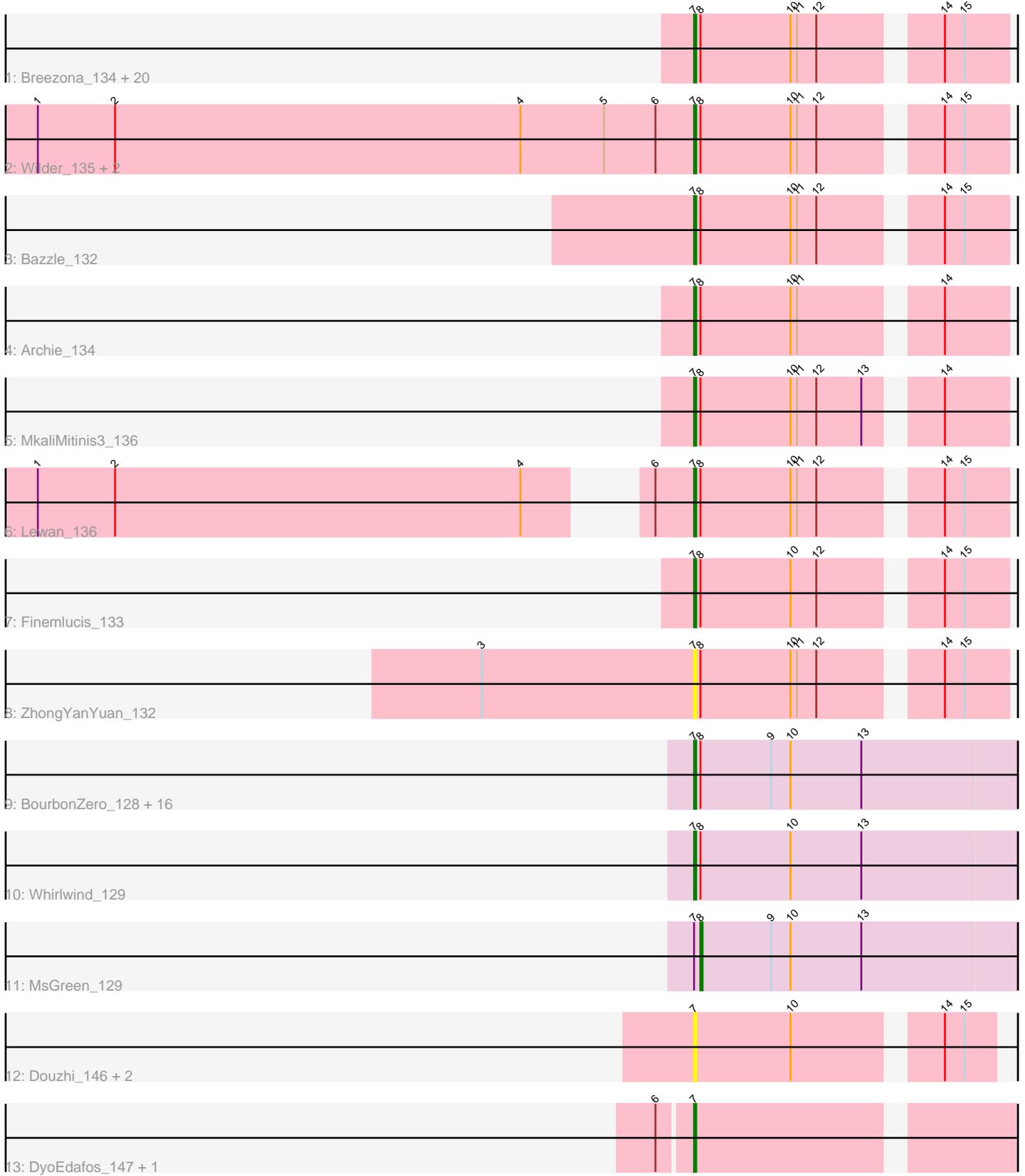


Pham 219803



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 219803 Report

This analysis was run 03/28/25 on database version 593.

Pham number 219803 has 54 members, 16 are drafts.

Phages represented in each track:

- Track 1 : Breezona_134, Itos_134, Nicholasp3_135, Crossroads_137, Miley16_134, DHan_136, DrSeegs_132, Vetrix_134, Gabriela_134, Zakai_136, BigCheese_133, Gardann_134, Netyap_132, Underpass_124, Rossetti_136, Winky_134, Faith1_132, SoJulia_138, Wigglewiggle_135, Loadrie_135, Soap141_136
- Track 2 : Wilder_135, LilDestine_131, Kahlid_134
- Track 3 : Bazzle_132
- Track 4 : Archie_134
- Track 5 : MkaliMitinis3_136
- Track 6 : Lewan_136
- Track 7 : Finemlucis_133
- Track 8 : ZhongYanYuan_132
- Track 9 : BourbonZero_128, KirDoubleO7_125, Lolly9_128, Bellis_125, Jobypre_128, Clautastrophe_127, Red305_129, Finnry_126, DuncansLeg_128, Krypton555_130, MiniLon_132, Ellson_126, Samty_126, Snenia_127, Lumos_128, Jubie_128, TriFive_128
- Track 10 : Whirlwind_129
- Track 11 : MsGreen_129
- Track 12 : Douzhi_146, PYPDinur_145, BrainDrainer_146
- Track 13 : DyoEdafos_147, Kropertea_139

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 37 of the 38 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Archie_134, Bazzle_132, Bellis_125, BigCheese_133, BourbonZero_128, BrainDrainer_146, Breezona_134, Clautastrophe_127, Crossroads_137, DHan_136, Douzhi_146, DrSeegs_132, DuncansLeg_128, DyoEdafos_147, Ellson_126, Faith1_132, Finemlucis_133, Finnry_126, Gabriela_134, Gardann_134, Itos_134, Jobypre_128, Jubie_128, Kahlid_134, KirDoubleO7_125, Kropertea_139, Krypton555_130, Lewan_136, LilDestine_131, Loadrie_135, Lolly9_128, Lumos_128, Miley16_134, MiniLon_132, MkaliMitinis3_136, Netyap_132, Nicholasp3_135, PYPDinur_145, Red305_129, Rossetti_136, Samty_126, Snenia_127, SoJulia_138,

Soap141_136, TriFive_128, Underpass_124, Vetrix_134, Whirlwind_129, Wigglewiggles_135, Wilder_135, Winky_134, Zakai_136, ZhongYanYuan_132,

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

- MsGreen_129,

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

-

Summary by start number:

Start 7:

- Found in 54 of 54 (100.0%) of genes in pham
- Manual Annotations of this start: 37 of 38
- Called 98.1% of time when present
- Phage (with cluster) where this start called: Archie_134 (L2), Bazzle_132 (L2), Bellis_125 (L3), BigCheese_133 (L2), BourbonZero_128 (L3), BrainDrainer_146 (L4), Breezona_134 (L2), Clautastrophe_127 (L3), Crossroads_137 (L2), DHan_136 (L2), Douzhi_146 (L4), DrSeegs_132 (L2), DuncansLeg_128 (L3), DyoEdafos_147 (L4), Ellson_126 (L3), Faith1_132 (L2), Finemlucis_133 (L2), Finnry_126 (L3), Gabriela_134 (L2), Gardann_134 (L2), Itos_134 (L2), Jobypre_128 (L3), Jubie_128 (L3), Kahlid_134 (L2), KirDoubleO7_125 (L3), Kropertea_139 (L4), Krypton555_130 (L3), Lewan_136 (L2), LilDestine_131 (L2), Loadrie_135 (L2), Lolly9_128 (L3), Lumos_128 (L3), Miley16_134 (L2), MiniLon_132 (L3), MkaliMitinis3_136 (L2), Netyap_132 (L2), Nicholasp3_135 (L2), PYPDinur_145 (L4), Red305_129 (L3), Rossetti_136 (L2), Samty_126 (L3), Snenia_127 (L3), SoJulia_138 (L2), Soap141_136 (L2), TriFive_128 (L3), Underpass_124 (L2), Vetrix_134 (L2), Whirlwind_129 (L3), Wigglewiggles_135 (L2), Wilder_135 (L2), Winky_134 (L2), Zakai_136 (L2), ZhongYanYuan_132 (L2),

Start 8:

- Found in 49 of 54 (90.7%) of genes in pham
- Manual Annotations of this start: 1 of 38
- Called 2.0% of time when present
- Phage (with cluster) where this start called: MsGreen_129 (L3),

Summary by clusters:

There are 3 clusters represented in this pham: L4, L2, L3,

Info for manual annotations of cluster L2:

- Start number 7 was manually annotated 24 times for cluster L2.

Info for manual annotations of cluster L3:

- Start number 7 was manually annotated 12 times for cluster L3.
- Start number 8 was manually annotated 1 time for cluster L3.

Info for manual annotations of cluster L4:

- Start number 7 was manually annotated 1 time for cluster L4.

Gene Information:

Gene: Archie_134 Start: 70552, Stop: 70418, Start Num: 7
Candidate Starts for Archie_134:
(Start: 7 @70552 has 37 MA's), (Start: 8 @70549 has 1 MA's), (10, 70507), (11, 70504), (14, 70447),

Gene: Bazzle_132 Start: 70726, Stop: 70592, Start Num: 7
Candidate Starts for Bazzle_132:
(Start: 7 @70726 has 37 MA's), (Start: 8 @70723 has 1 MA's), (10, 70681), (11, 70678), (12, 70669),
(14, 70621), (15, 70612),

Gene: Bellis_125 Start: 69290, Stop: 69141, Start Num: 7
Candidate Starts for Bellis_125:
(Start: 7 @69290 has 37 MA's), (Start: 8 @69287 has 1 MA's), (9, 69254), (10, 69245), (13, 69212),

Gene: BigCheese_133 Start: 70219, Stop: 70085, Start Num: 7
Candidate Starts for BigCheese_133:
(Start: 7 @70219 has 37 MA's), (Start: 8 @70216 has 1 MA's), (10, 70174), (11, 70171), (12, 70162),
(14, 70114), (15, 70105),

Gene: BourbonZero_128 Start: 69558, Stop: 69409, Start Num: 7
Candidate Starts for BourbonZero_128:
(Start: 7 @69558 has 37 MA's), (Start: 8 @69555 has 1 MA's), (9, 69522), (10, 69513), (13, 69480),

Gene: BrainDrainer_146 Start: 72039, Stop: 71911, Start Num: 7
Candidate Starts for BrainDrainer_146:
(Start: 7 @72039 has 37 MA's), (10, 71994), (14, 71934), (15, 71925),

Gene: Breezona_134 Start: 70554, Stop: 70420, Start Num: 7
Candidate Starts for Breezona_134:
(Start: 7 @70554 has 37 MA's), (Start: 8 @70551 has 1 MA's), (10, 70509), (11, 70506), (12, 70497),
(14, 70449), (15, 70440),

Gene: Clautastrophe_127 Start: 69401, Stop: 69252, Start Num: 7
Candidate Starts for Clautastrophe_127:
(Start: 7 @69401 has 37 MA's), (Start: 8 @69398 has 1 MA's), (9, 69365), (10, 69356), (13, 69323),

Gene: Crossroads_137 Start: 70488, Stop: 70354, Start Num: 7
Candidate Starts for Crossroads_137:
(Start: 7 @70488 has 37 MA's), (Start: 8 @70485 has 1 MA's), (10, 70443), (11, 70440), (12, 70431),
(14, 70383), (15, 70374),

Gene: DHan_136 Start: 70917, Stop: 70783, Start Num: 7
Candidate Starts for DHan_136:
(Start: 7 @70917 has 37 MA's), (Start: 8 @70914 has 1 MA's), (10, 70872), (11, 70869), (12, 70860),
(14, 70812), (15, 70803),

Gene: Douzhi_146 Start: 72211, Stop: 72083, Start Num: 7
Candidate Starts for Douzhi_146:
(Start: 7 @72211 has 37 MA's), (10, 72166), (14, 72106), (15, 72097),

Gene: DrSeegs_132 Start: 70554, Stop: 70420, Start Num: 7
Candidate Starts for DrSeegs_132:
(Start: 7 @70554 has 37 MA's), (Start: 8 @70551 has 1 MA's), (10, 70509), (11, 70506), (12, 70497),
(14, 70449), (15, 70440),

Gene: DuncansLeg_128 Start: 69584, Stop: 69435, Start Num: 7
Candidate Starts for DuncansLeg_128:
(Start: 7 @69584 has 37 MA's), (Start: 8 @69581 has 1 MA's), (9, 69548), (10, 69539), (13, 69506),

Gene: DyoEdafos_147 Start: 71720, Stop: 71583, Start Num: 7
Candidate Starts for DyoEdafos_147:
(6, 71735), (Start: 7 @71720 has 37 MA's),

Gene: Ellson_126 Start: 69840, Stop: 69691, Start Num: 7
Candidate Starts for Ellson_126:
(Start: 7 @69840 has 37 MA's), (Start: 8 @69837 has 1 MA's), (9, 69804), (10, 69795), (13, 69762),

Gene: Faith1_132 Start: 69862, Stop: 69728, Start Num: 7
Candidate Starts for Faith1_132:
(Start: 7 @69862 has 37 MA's), (Start: 8 @69859 has 1 MA's), (10, 69817), (11, 69814), (12, 69805),
(14, 69757), (15, 69748),

Gene: Finemlucis_133 Start: 71315, Stop: 71181, Start Num: 7
Candidate Starts for Finemlucis_133:
(Start: 7 @71315 has 37 MA's), (Start: 8 @71312 has 1 MA's), (10, 71270), (12, 71258), (14, 71210),
(15, 71201),

Gene: Finnry_126 Start: 69638, Stop: 69489, Start Num: 7
Candidate Starts for Finnry_126:
(Start: 7 @69638 has 37 MA's), (Start: 8 @69635 has 1 MA's), (9, 69602), (10, 69593), (13, 69560),

Gene: Gabriela_134 Start: 69650, Stop: 69516, Start Num: 7
Candidate Starts for Gabriela_134:
(Start: 7 @69650 has 37 MA's), (Start: 8 @69647 has 1 MA's), (10, 69605), (11, 69602), (12, 69593),
(14, 69545), (15, 69536),

Gene: Gardann_134 Start: 70327, Stop: 70193, Start Num: 7
Candidate Starts for Gardann_134:
(Start: 7 @70327 has 37 MA's), (Start: 8 @70324 has 1 MA's), (10, 70282), (11, 70279), (12, 70270),
(14, 70222), (15, 70213),

Gene: Itos_134 Start: 68768, Stop: 68634, Start Num: 7
Candidate Starts for Itos_134:
(Start: 7 @68768 has 37 MA's), (Start: 8 @68765 has 1 MA's), (10, 68723), (11, 68720), (12, 68711),
(14, 68663), (15, 68654),

Gene: Jobypre_128 Start: 69399, Stop: 69250, Start Num: 7
Candidate Starts for Jobypre_128:
(Start: 7 @69399 has 37 MA's), (Start: 8 @69396 has 1 MA's), (9, 69363), (10, 69354), (13, 69321),

Gene: Jubie_128 Start: 69534, Stop: 69385, Start Num: 7
Candidate Starts for Jubie_128:
(Start: 7 @69534 has 37 MA's), (Start: 8 @69531 has 1 MA's), (9, 69498), (10, 69489), (13, 69456),

Gene: Kahlid_134 Start: 70166, Stop: 70032, Start Num: 7
Candidate Starts for Kahlid_134:

(1, 70472), (2, 70436), (4, 70247), (5, 70208), (6, 70184), (Start: 7 @70166 has 37 MA's), (Start: 8 @70163 has 1 MA's), (10, 70121), (11, 70118), (12, 70109), (14, 70061), (15, 70052),

Gene: KirDoubleO7_125 Start: 69531, Stop: 69382, Start Num: 7

Candidate Starts for KirDoubleO7_125:

(Start: 7 @69531 has 37 MA's), (Start: 8 @69528 has 1 MA's), (9, 69495), (10, 69486), (13, 69453),

Gene: Kropertea_139 Start: 71388, Stop: 71251, Start Num: 7

Candidate Starts for Kropertea_139:

(6, 71403), (Start: 7 @71388 has 37 MA's),

Gene: Krypton555_130 Start: 69780, Stop: 69631, Start Num: 7

Candidate Starts for Krypton555_130:

(Start: 7 @69780 has 37 MA's), (Start: 8 @69777 has 1 MA's), (9, 69744), (10, 69735), (13, 69702),

Gene: Lewan_136 Start: 70845, Stop: 70711, Start Num: 7

Candidate Starts for Lewan_136:

(1, 71118), (2, 71082), (4, 70893), (6, 70863), (Start: 7 @70845 has 37 MA's), (Start: 8 @70842 has 1 MA's), (10, 70800), (11, 70797), (12, 70788), (14, 70740), (15, 70731),

Gene: LilDestine_131 Start: 69336, Stop: 69202, Start Num: 7

Candidate Starts for LilDestine_131:

(1, 69642), (2, 69606), (4, 69417), (5, 69378), (6, 69354), (Start: 7 @69336 has 37 MA's), (Start: 8 @69333 has 1 MA's), (10, 69291), (11, 69288), (12, 69279), (14, 69231), (15, 69222),

Gene: Loadrie_135 Start: 70878, Stop: 70744, Start Num: 7

Candidate Starts for Loadrie_135:

(Start: 7 @70878 has 37 MA's), (Start: 8 @70875 has 1 MA's), (10, 70833), (11, 70830), (12, 70821), (14, 70773), (15, 70764),

Gene: Lolly9_128 Start: 69937, Stop: 69788, Start Num: 7

Candidate Starts for Lolly9_128:

(Start: 7 @69937 has 37 MA's), (Start: 8 @69934 has 1 MA's), (9, 69901), (10, 69892), (13, 69859),

Gene: Lumos_128 Start: 69396, Stop: 69247, Start Num: 7

Candidate Starts for Lumos_128:

(Start: 7 @69396 has 37 MA's), (Start: 8 @69393 has 1 MA's), (9, 69360), (10, 69351), (13, 69318),

Gene: Miley16_134 Start: 70554, Stop: 70420, Start Num: 7

Candidate Starts for Miley16_134:

(Start: 7 @70554 has 37 MA's), (Start: 8 @70551 has 1 MA's), (10, 70509), (11, 70506), (12, 70497), (14, 70449), (15, 70440),

Gene: MiniLon_132 Start: 69938, Stop: 69789, Start Num: 7

Candidate Starts for MiniLon_132:

(Start: 7 @69938 has 37 MA's), (Start: 8 @69935 has 1 MA's), (9, 69902), (10, 69893), (13, 69860),

Gene: MkaliMitinis3_136 Start: 70250, Stop: 70116, Start Num: 7

Candidate Starts for MkaliMitinis3_136:

(Start: 7 @70250 has 37 MA's), (Start: 8 @70247 has 1 MA's), (10, 70205), (11, 70202), (12, 70193), (13, 70172), (14, 70145),

Gene: MsGreen_129 Start: 69396, Stop: 69250, Start Num: 8

Candidate Starts for MsGreen_129:

(Start: 7 @69399 has 37 MA's), (Start: 8 @69396 has 1 MA's), (9, 69363), (10, 69354), (13, 69321),

Gene: Netyap_132 Start: 70268, Stop: 70134, Start Num: 7

Candidate Starts for Netyap_132:

(Start: 7 @70268 has 37 MA's), (Start: 8 @70265 has 1 MA's), (10, 70223), (11, 70220), (12, 70211), (14, 70163), (15, 70154),

Gene: Nicholasp3_135 Start: 70327, Stop: 70193, Start Num: 7

Candidate Starts for Nicholasp3_135:

(Start: 7 @70327 has 37 MA's), (Start: 8 @70324 has 1 MA's), (10, 70282), (11, 70279), (12, 70270), (14, 70222), (15, 70213),

Gene: PYPDinur_145 Start: 72023, Stop: 71895, Start Num: 7

Candidate Starts for PYPDinur_145:

(Start: 7 @72023 has 37 MA's), (10, 71978), (14, 71918), (15, 71909),

Gene: Red305_129 Start: 69399, Stop: 69250, Start Num: 7

Candidate Starts for Red305_129:

(Start: 7 @69399 has 37 MA's), (Start: 8 @69396 has 1 MA's), (9, 69363), (10, 69354), (13, 69321),

Gene: Rossetti_136 Start: 70792, Stop: 70658, Start Num: 7

Candidate Starts for Rossetti_136:

(Start: 7 @70792 has 37 MA's), (Start: 8 @70789 has 1 MA's), (10, 70747), (11, 70744), (12, 70735), (14, 70687), (15, 70678),

Gene: Samty_126 Start: 69381, Stop: 69232, Start Num: 7

Candidate Starts for Samty_126:

(Start: 7 @69381 has 37 MA's), (Start: 8 @69378 has 1 MA's), (9, 69345), (10, 69336), (13, 69303),

Gene: Snenia_127 Start: 69400, Stop: 69251, Start Num: 7

Candidate Starts for Snenia_127:

(Start: 7 @69400 has 37 MA's), (Start: 8 @69397 has 1 MA's), (9, 69364), (10, 69355), (13, 69322),

Gene: SoJulia_138 Start: 72330, Stop: 72196, Start Num: 7

Candidate Starts for SoJulia_138:

(Start: 7 @72330 has 37 MA's), (Start: 8 @72327 has 1 MA's), (10, 72285), (11, 72282), (12, 72273), (14, 72225), (15, 72216),

Gene: Soap141_136 Start: 71223, Stop: 71089, Start Num: 7

Candidate Starts for Soap141_136:

(Start: 7 @71223 has 37 MA's), (Start: 8 @71220 has 1 MA's), (10, 71178), (11, 71175), (12, 71166), (14, 71118), (15, 71109),

Gene: TriFive_128 Start: 69512, Stop: 69363, Start Num: 7

Candidate Starts for TriFive_128:

(Start: 7 @69512 has 37 MA's), (Start: 8 @69509 has 1 MA's), (9, 69476), (10, 69467), (13, 69434),

Gene: Underpass_124 Start: 65367, Stop: 65233, Start Num: 7

Candidate Starts for Underpass_124:

(Start: 7 @65367 has 37 MA's), (Start: 8 @65364 has 1 MA's), (10, 65322), (11, 65319), (12, 65310), (14, 65262), (15, 65253),

Gene: Vetric_134 Start: 70864, Stop: 70730, Start Num: 7

Candidate Starts for Vetric_134:

(Start: 7 @70864 has 37 MA's), (Start: 8 @70861 has 1 MA's), (10, 70819), (11, 70816), (12, 70807), (14, 70759), (15, 70750),

Gene: Whirlwind_129 Start: 69872, Stop: 69723, Start Num: 7

Candidate Starts for Whirlwind_129:

(Start: 7 @69872 has 37 MA's), (Start: 8 @69869 has 1 MA's), (10, 69827), (13, 69794),

Gene: Wigglewigggle_135 Start: 70460, Stop: 70326, Start Num: 7

Candidate Starts for Wigglewigggle_135:

(Start: 7 @70460 has 37 MA's), (Start: 8 @70457 has 1 MA's), (10, 70415), (11, 70412), (12, 70403), (14, 70355), (15, 70346),

Gene: Wilder_135 Start: 70020, Stop: 69886, Start Num: 7

Candidate Starts for Wilder_135:

(1, 70326), (2, 70290), (4, 70101), (5, 70062), (6, 70038), (Start: 7 @70020 has 37 MA's), (Start: 8 @70017 has 1 MA's), (10, 69975), (11, 69972), (12, 69963), (14, 69915), (15, 69906),

Gene: Winky_134 Start: 70555, Stop: 70421, Start Num: 7

Candidate Starts for Winky_134:

(Start: 7 @70555 has 37 MA's), (Start: 8 @70552 has 1 MA's), (10, 70510), (11, 70507), (12, 70498), (14, 70450), (15, 70441),

Gene: Zakai_136 Start: 70265, Stop: 70131, Start Num: 7

Candidate Starts for Zakai_136:

(Start: 7 @70265 has 37 MA's), (Start: 8 @70262 has 1 MA's), (10, 70220), (11, 70217), (12, 70208), (14, 70160), (15, 70151),

Gene: ZhongYanYuan_132 Start: 70037, Stop: 69903, Start Num: 7

Candidate Starts for ZhongYanYuan_132:

(3, 70136), (Start: 7 @70037 has 37 MA's), (Start: 8 @70034 has 1 MA's), (10, 69992), (11, 69989), (12, 69980), (14, 69932), (15, 69923),