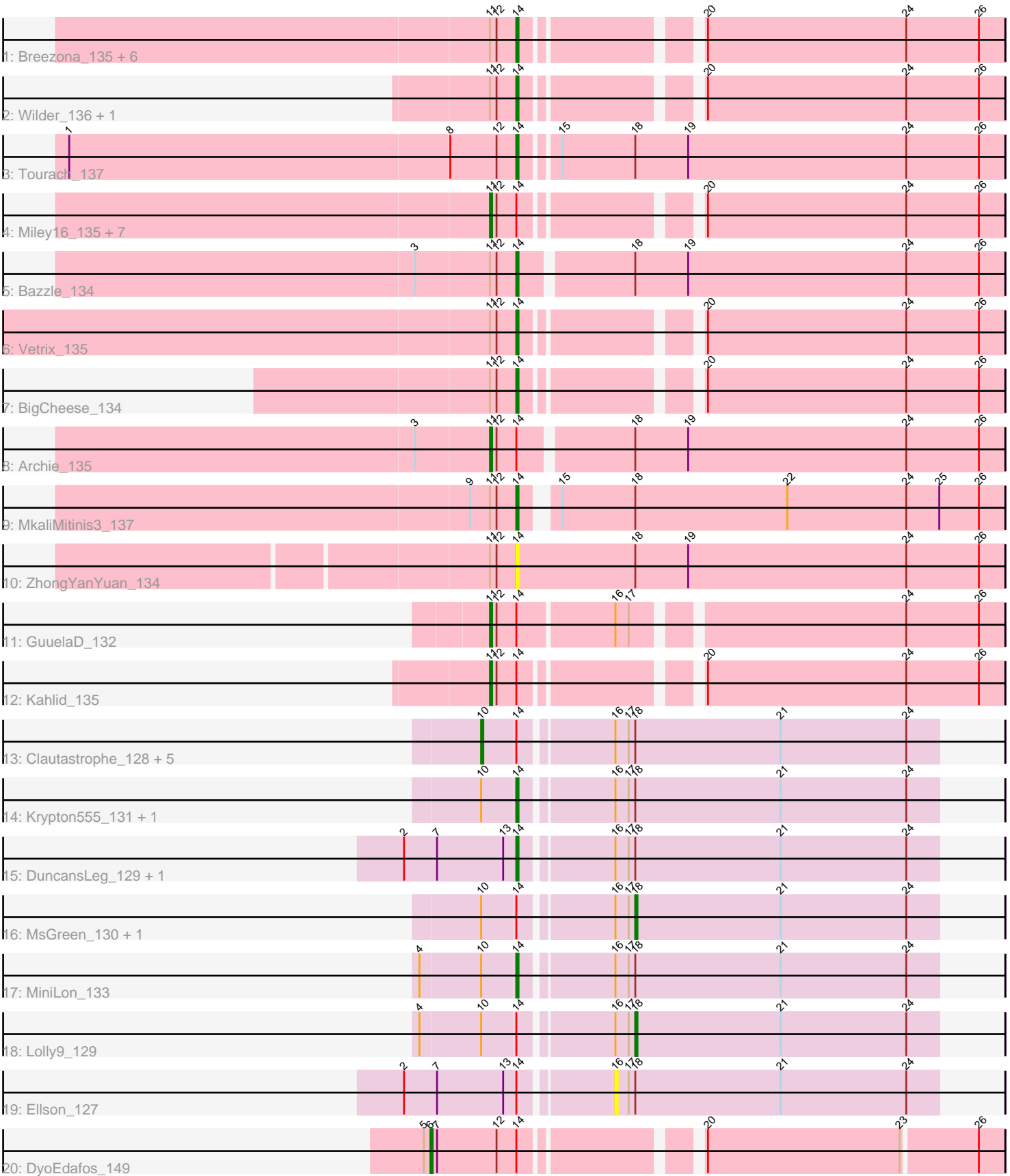


Pham 139870



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 139870 Report

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

Pham number 139870 has 42 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Breezona_135, Nicholasp3_136, Faith1_133, Zakai_137, Gardann_135, Netyap_133, Winky_135
- Track 2 : Wilder_136, LilDestine_132
- Track 3 : Tourach_137
- Track 4 : Miley16_135, Crossroads_138, DrSeegs_133, Gabriela_135, Itos_135, Wigglewiggle_136, Lewan_137, Loadrie_136
- Track 5 : Bazzle_134
- Track 6 : Vetrix_135
- Track 7 : BigCheese_134
- Track 8 : Archie_135
- Track 9 : MkaliMitinis3_137
- Track 10 : ZhongYanYuan_134
- Track 11 : GuuelaD_132
- Track 12 : Kahlid_135
- Track 13 : Clautastrophe_128, Finnry_127, Samty_127, Snenia_128, Bellis_126, Jubie_129
- Track 14 : Krypton555_131, Lumos_129
- Track 15 : DuncansLeg_129, Whirlwind_130
- Track 16 : MsGreen_130, Jobypre_130
- Track 17 : MiniLon_133
- Track 18 : Lolly9_129
- Track 19 : Ellson_127
- Track 20 : DyoEdafos_149

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

The start number called the most often in the published annotations is 14, it was called in 19 of the 38 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bazzle_134, BigCheese_134, Breezona_135, DuncansLeg_129, Faith1_133, Gardann_135, Krypton555_131, LilDestine_132, Lumos_129, MiniLon_133, MkaliMitinis3_137, Netyap_133, Nicholasp3_136, Tourach_137, Vetrix_135, Whirlwind_130, Wilder_136, Winky_135, Zakai_137, ZhongYanYuan_134,

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

- Archie_135, Bellis_126, Clautastrophe_128, Crossroads_138, DrSeegs_133, DyoEdafos_149, Ellson_127, Finnry_127, Gabriela_135, GuuelaD_132, Itos_135, Jobypre_130, Jubie_129, Kahlid_135, Lewan_137, Loadrie_136, Lolly9_129, Miley16_135, MsGreen_130, Samty_127, Snenia_128, Wigglewiggle_136,

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

-

Summary by start number:

Start 6:

- Found in 1 of 42 (2.4%) of genes in pham
- Manual Annotations of this start: 1 of 38
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DyoEdafos_149 (L4),

Start 10:

- Found in 12 of 42 (28.6%) of genes in pham
- Manual Annotations of this start: 5 of 38
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Bellis_126 (L3), Clautastrophe_128 (L3), Finnry_127 (L3), Jubie_129 (L3), Samty_127 (L3), Snenia_128 (L3),

Start 11:

- Found in 25 of 42 (59.5%) of genes in pham
- Manual Annotations of this start: 11 of 38
- Called 44.0% of time when present
- Phage (with cluster) where this start called: Archie_135 (L2), Crossroads_138 (L2), DrSeegs_133 (L2), Gabriela_135 (L2), GuuelaD_132 (L2), Itos_135 (L2), Kahlid_135 (L2), Lewan_137 (L2), Loadrie_136 (L2), Miley16_135 (L2), Wigglewiggle_136 (L2),

Start 14:

- Found in 42 of 42 (100.0%) of genes in pham
- Manual Annotations of this start: 19 of 38
- Called 47.6% of time when present
- Phage (with cluster) where this start called: Bazzle_134 (L2), BigCheese_134 (L2), Breezona_135 (L2), DuncansLeg_129 (L3), Faith1_133 (L2), Gardann_135 (L2), Krypton555_131 (L3), LilDestine_132 (L2), Lumos_129 (L3), MiniLon_133 (L3), MkaliMitinis3_137 (L2), Netyap_133 (L2), Nicholasp3_136 (L2), Tourach_137 (L2), Vetrix_135 (L2), Whirlwind_130 (L3), Wilder_136 (L2), Winky_135 (L2), Zakai_137 (L2), ZhongYanYuan_134 (L2),

Start 16:

- Found in 16 of 42 (38.1%) of genes in pham
- No Manual Annotations of this start.
- Called 6.2% of time when present
- Phage (with cluster) where this start called: Ellson_127 (L3),

Start 18:

- Found in 20 of 42 (47.6%) of genes in pham
- Manual Annotations of this start: 2 of 38

- Called 15.0% of time when present
- Phage (with cluster) where this start called: Jobypre_130 (L3), Lolly9_129 (L3), MsGreen_130 (L3),

Summary by clusters:

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

Info for manual annotations of cluster L2:

- Start number 11 was manually annotated 11 times for cluster L2.
- Start number 14 was manually annotated 14 times for cluster L2.

Info for manual annotations of cluster L3:

- Start number 10 was manually annotated 5 times for cluster L3.
- Start number 14 was manually annotated 5 times for cluster L3.
- Start number 18 was manually annotated 2 times for cluster L3.

Info for manual annotations of cluster L4:

- Start number 6 was manually annotated 1 time for cluster L4.

Gene Information:

Gene: Archie_135 Start: 70781, Stop: 70554, Start Num: 11

Candidate Starts for Archie_135:

(3, 70814), (Start: 11 @70781 has 11 MA's), (12, 70778), (Start: 14 @70769 has 19 MA's), (Start: 18 @70721 has 2 MA's), (19, 70697), (24, 70598), (26, 70565),

Gene: Bazzle_134 Start: 71163, Stop: 70948, Start Num: 14

Candidate Starts for Bazzle_134:

(3, 71208), (Start: 11 @71175 has 11 MA's), (12, 71172), (Start: 14 @71163 has 19 MA's), (Start: 18 @71115 has 2 MA's), (19, 71091), (24, 70992), (26, 70959),

Gene: Bellis_126 Start: 69492, Stop: 69292, Start Num: 10

Candidate Starts for Bellis_126:

(Start: 10 @69492 has 5 MA's), (Start: 14 @69477 has 19 MA's), (16, 69438), (17, 69432), (Start: 18 @69429 has 2 MA's), (21, 69363), (24, 69306),

Gene: BigCheese_134 Start: 70424, Stop: 70221, Start Num: 14

Candidate Starts for BigCheese_134:

(Start: 11 @70436 has 11 MA's), (12, 70433), (Start: 14 @70424 has 19 MA's), (20, 70355), (24, 70265), (26, 70232),

Gene: Breezona_135 Start: 70759, Stop: 70556, Start Num: 14

Candidate Starts for Breezona_135:

(Start: 11 @70771 has 11 MA's), (12, 70768), (Start: 14 @70759 has 19 MA's), (20, 70690), (24, 70600), (26, 70567),

Gene: Clautastrophe_128 Start: 69603, Stop: 69403, Start Num: 10

Candidate Starts for Clautastrophe_128:

(Start: 10 @69603 has 5 MA's), (Start: 14 @69588 has 19 MA's), (16, 69549), (17, 69543), (Start: 18 @69540 has 2 MA's), (21, 69474), (24, 69417),

Gene: Crossroads_138 Start: 70705, Stop: 70490, Start Num: 11

Candidate Starts for Crossroads_138:

(Start: 11 @70705 has 11 MA's), (12, 70702), (Start: 14 @70693 has 19 MA's), (20, 70624), (24, 70534), (26, 70501),

Gene: DrSeegs_133 Start: 70771, Stop: 70556, Start Num: 11

Candidate Starts for DrSeegs_133:

(Start: 11 @70771 has 11 MA's), (12, 70768), (Start: 14 @70759 has 19 MA's), (20, 70690), (24, 70600), (26, 70567),

Gene: DuncansLeg_129 Start: 69771, Stop: 69586, Start Num: 14

Candidate Starts for DuncansLeg_129:

(2, 69822), (7, 69807), (13, 69777), (Start: 14 @69771 has 19 MA's), (16, 69732), (17, 69726), (Start: 18 @69723 has 2 MA's), (21, 69657), (24, 69600),

Gene: DyoEdafos_149 Start: 72181, Stop: 71942, Start Num: 6

Candidate Starts for DyoEdafos_149:

(5, 72184), (Start: 6 @72181 has 1 MA's), (7, 72178), (12, 72151), (Start: 14 @72142 has 19 MA's), (20, 72073), (23, 71986), (26, 71953),

Gene: Ellson_127 Start: 69988, Stop: 69842, Start Num: 16

Candidate Starts for Ellson_127:

(2, 70078), (7, 70063), (13, 70033), (Start: 14 @70027 has 19 MA's), (16, 69988), (17, 69982), (Start: 18 @69979 has 2 MA's), (21, 69913), (24, 69856),

Gene: Faith1_133 Start: 70067, Stop: 69864, Start Num: 14

Candidate Starts for Faith1_133:

(Start: 11 @70079 has 11 MA's), (12, 70076), (Start: 14 @70067 has 19 MA's), (20, 69998), (24, 69908), (26, 69875),

Gene: Finnry_127 Start: 69840, Stop: 69640, Start Num: 10

Candidate Starts for Finnry_127:

(Start: 10 @69840 has 5 MA's), (Start: 14 @69825 has 19 MA's), (16, 69786), (17, 69780), (Start: 18 @69777 has 2 MA's), (21, 69711), (24, 69654),

Gene: Gabriela_135 Start: 69867, Stop: 69652, Start Num: 11

Candidate Starts for Gabriela_135:

(Start: 11 @69867 has 11 MA's), (12, 69864), (Start: 14 @69855 has 19 MA's), (20, 69786), (24, 69696), (26, 69663),

Gene: Gardann_135 Start: 70532, Stop: 70329, Start Num: 14

Candidate Starts for Gardann_135:

(Start: 11 @70544 has 11 MA's), (12, 70541), (Start: 14 @70532 has 19 MA's), (20, 70463), (24, 70373), (26, 70340),

Gene: GuuelaD_132 Start: 70588, Stop: 70370, Start Num: 11

Candidate Starts for GuuelaD_132:

(Start: 11 @70588 has 11 MA's), (12, 70585), (Start: 14 @70576 has 19 MA's), (16, 70534), (17, 70528), (24, 70414), (26, 70381),

Gene: Itos_135 Start: 68985, Stop: 68770, Start Num: 11

Candidate Starts for Itos_135:

(Start: 11 @68985 has 11 MA's), (12, 68982), (Start: 14 @68973 has 19 MA's), (20, 68904), (24, 68814), (26, 68781),

Gene: Jobypre_130 Start: 69538, Stop: 69401, Start Num: 18

Candidate Starts for Jobypre_130:

(Start: 10 @69601 has 5 MA's), (Start: 14 @69586 has 19 MA's), (16, 69547), (17, 69541), (Start: 18 @69538 has 2 MA's), (21, 69472), (24, 69415),

Gene: Jubie_129 Start: 69736, Stop: 69536, Start Num: 10

Candidate Starts for Jubie_129:

(Start: 10 @69736 has 5 MA's), (Start: 14 @69721 has 19 MA's), (16, 69682), (17, 69676), (Start: 18 @69673 has 2 MA's), (21, 69607), (24, 69550),

Gene: Kahlid_135 Start: 70468, Stop: 70253, Start Num: 11

Candidate Starts for Kahlid_135:

(Start: 11 @70468 has 11 MA's), (12, 70465), (Start: 14 @70456 has 19 MA's), (20, 70387), (24, 70297), (26, 70264),

Gene: Krypton555_131 Start: 69967, Stop: 69782, Start Num: 14

Candidate Starts for Krypton555_131:

(Start: 10 @69982 has 5 MA's), (Start: 14 @69967 has 19 MA's), (16, 69928), (17, 69922), (Start: 18 @69919 has 2 MA's), (21, 69853), (24, 69796),

Gene: Lewan_137 Start: 71114, Stop: 70899, Start Num: 11

Candidate Starts for Lewan_137:

(Start: 11 @71114 has 11 MA's), (12, 71111), (Start: 14 @71102 has 19 MA's), (20, 71033), (24, 70943), (26, 70910),

Gene: LilDestine_132 Start: 69626, Stop: 69423, Start Num: 14

Candidate Starts for LilDestine_132:

(Start: 11 @69638 has 11 MA's), (12, 69635), (Start: 14 @69626 has 19 MA's), (20, 69557), (24, 69467), (26, 69434),

Gene: Loadrie_136 Start: 71095, Stop: 70880, Start Num: 11

Candidate Starts for Loadrie_136:

(Start: 11 @71095 has 11 MA's), (12, 71092), (Start: 14 @71083 has 19 MA's), (20, 71014), (24, 70924), (26, 70891),

Gene: Lolly9_129 Start: 70076, Stop: 69939, Start Num: 18

Candidate Starts for Lolly9_129:

(4, 70166), (Start: 10 @70139 has 5 MA's), (Start: 14 @70124 has 19 MA's), (16, 70085), (17, 70079), (Start: 18 @70076 has 2 MA's), (21, 70010), (24, 69953),

Gene: Lumos_129 Start: 69583, Stop: 69398, Start Num: 14

Candidate Starts for Lumos_129:

(Start: 10 @69598 has 5 MA's), (Start: 14 @69583 has 19 MA's), (16, 69544), (17, 69538), (Start: 18 @69535 has 2 MA's), (21, 69469), (24, 69412),

Gene: Miley16_135 Start: 70771, Stop: 70556, Start Num: 11

Candidate Starts for Miley16_135:

(Start: 11 @70771 has 11 MA's), (12, 70768), (Start: 14 @70759 has 19 MA's), (20, 70690), (24, 70600), (26, 70567),

Gene: MiniLon_133 Start: 70125, Stop: 69940, Start Num: 14

Candidate Starts for MiniLon_133:

(4, 70167), (Start: 10 @70140 has 5 MA's), (Start: 14 @70125 has 19 MA's), (16, 70086), (17, 70080), (Start: 18 @70077 has 2 MA's), (21, 70011), (24, 69954),

Gene: MkaliMitinis3_137 Start: 70464, Stop: 70252, Start Num: 14

Candidate Starts for MkaliMitinis3_137:

(9, 70485), (Start: 11 @70476 has 11 MA's), (12, 70473), (Start: 14 @70464 has 19 MA's), (15, 70452), (Start: 18 @70419 has 2 MA's), (22, 70350), (24, 70296), (25, 70281), (26, 70263),

Gene: MsGreen_130 Start: 69538, Stop: 69401, Start Num: 18

Candidate Starts for MsGreen_130:

(Start: 10 @69601 has 5 MA's), (Start: 14 @69586 has 19 MA's), (16, 69547), (17, 69541), (Start: 18 @69538 has 2 MA's), (21, 69472), (24, 69415),

Gene: Netyap_133 Start: 70473, Stop: 70270, Start Num: 14

Candidate Starts for Netyap_133:

(Start: 11 @70485 has 11 MA's), (12, 70482), (Start: 14 @70473 has 19 MA's), (20, 70404), (24, 70314), (26, 70281),

Gene: Nicholasp3_136 Start: 70532, Stop: 70329, Start Num: 14

Candidate Starts for Nicholasp3_136:

(Start: 11 @70544 has 11 MA's), (12, 70541), (Start: 14 @70532 has 19 MA's), (20, 70463), (24, 70373), (26, 70340),

Gene: Samty_127 Start: 69583, Stop: 69383, Start Num: 10

Candidate Starts for Samty_127:

(Start: 10 @69583 has 5 MA's), (Start: 14 @69568 has 19 MA's), (16, 69529), (17, 69523), (Start: 18 @69520 has 2 MA's), (21, 69454), (24, 69397),

Gene: Snenia_128 Start: 69602, Stop: 69402, Start Num: 10

Candidate Starts for Snenia_128:

(Start: 10 @69602 has 5 MA's), (Start: 14 @69587 has 19 MA's), (16, 69548), (17, 69542), (Start: 18 @69539 has 2 MA's), (21, 69473), (24, 69416),

Gene: Tourach_137 Start: 72248, Stop: 72033, Start Num: 14

Candidate Starts for Tourach_137:

(1, 72449), (8, 72278), (12, 72257), (Start: 14 @72248 has 19 MA's), (15, 72233), (Start: 18 @72200 has 2 MA's), (19, 72176), (24, 72077), (26, 72044),

Gene: Vetrix_135 Start: 71069, Stop: 70866, Start Num: 14

Candidate Starts for Vetrix_135:

(Start: 11 @71081 has 11 MA's), (12, 71078), (Start: 14 @71069 has 19 MA's), (20, 71000), (24, 70910), (26, 70877),

Gene: Whirlwind_130 Start: 70059, Stop: 69874, Start Num: 14

Candidate Starts for Whirlwind_130:

(2, 70110), (7, 70095), (13, 70065), (Start: 14 @70059 has 19 MA's), (16, 70020), (17, 70014), (Start: 18 @70011 has 2 MA's), (21, 69945), (24, 69888),

Gene: Wigglewiggle_136 Start: 70677, Stop: 70462, Start Num: 11

Candidate Starts for Wigglewiggle_136:

(Start: 11 @70677 has 11 MA's), (12, 70674), (Start: 14 @70665 has 19 MA's), (20, 70596), (24, 70506), (26, 70473),

Gene: Wilder_136 Start: 70310, Stop: 70107, Start Num: 14

Candidate Starts for Wilder_136:

(Start: 11 @70322 has 11 MA's), (12, 70319), (Start: 14 @70310 has 19 MA's), (20, 70241), (24, 70151), (26, 70118),

Gene: Winky_135 Start: 70760, Stop: 70557, Start Num: 14

Candidate Starts for Winky_135:

(Start: 11 @70772 has 11 MA's), (12, 70769), (Start: 14 @70760 has 19 MA's), (20, 70691), (24, 70601), (26, 70568),

Gene: Zakai_137 Start: 70470, Stop: 70267, Start Num: 14

Candidate Starts for Zakai_137:

(Start: 11 @70482 has 11 MA's), (12, 70479), (Start: 14 @70470 has 19 MA's), (20, 70401), (24, 70311), (26, 70278),

Gene: ZhongYanYuan_134 Start: 70480, Stop: 70259, Start Num: 14

Candidate Starts for ZhongYanYuan_134:

(Start: 11 @70492 has 11 MA's), (12, 70489), (Start: 14 @70480 has 19 MA's), (Start: 18 @70426 has 2 MA's), (19, 70402), (24, 70303), (26, 70270),