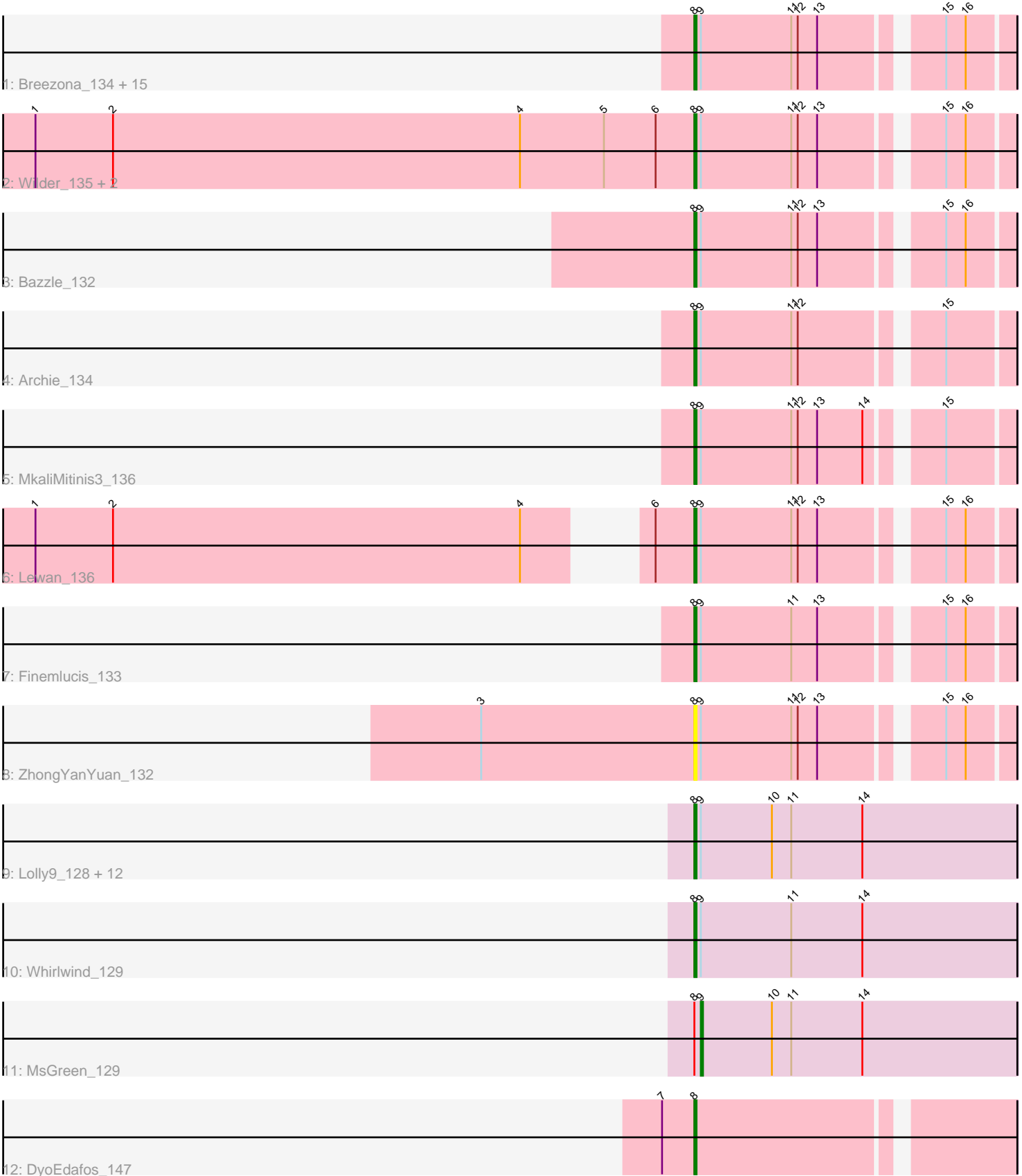


Pham 85946



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 85946 Report

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

Pham number 85946 has 41 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Breezona\_134, Miley16\_134, Itos\_134, Nicholasp3\_135, Crossroads\_137, DrSeegs\_132, Vetrix\_134, Gabriela\_134, Zakai\_136, BigCheese\_133, Gardann\_134, Netyap\_132, Winky\_134, Faith1\_132, Wigglewiggle\_135, Loadrie\_135
- 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 : Lolly9\_128, Bellis\_125, Jobypre\_129, Clautastrophe\_127, Finnry\_126, Krypton555\_130, DuncansLeg\_128, MiniLon\_132, Ellson\_126, Samty\_126, Snenia\_127, Lumos\_128, Jubie\_128
- Track 10 : Whirlwind\_129
- Track 11 : MsGreen\_129
- Track 12 : DyoEdafos\_147

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

The start number called the most often in the published annotations is 8, it was called in 36 of the 37 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Archie\_134, Bazzle\_132, Bellis\_125, BigCheese\_133, Breezona\_134, Clautastrophe\_127, Crossroads\_137, DrSeegs\_132, DuncansLeg\_128, DyoEdafos\_147, Ellson\_126, Faith1\_132, Finemlucis\_133, Finnry\_126, Gabriela\_134, Gardann\_134, Itos\_134, Jobypre\_129, Jubie\_128, Kahlid\_134, Krypton555\_130, Lewan\_136, LilDestine\_131, Loadrie\_135, Lolly9\_128, Lumos\_128, Miley16\_134, MiniLon\_132, MkaliMitinis3\_136, Netyap\_132, Nicholasp3\_135, Samty\_126, Snenia\_127, Vetrix\_134, Whirlwind\_129, Wigglewiggle\_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 8:

- Found in 41 of 41 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 36 of 37
- Called 97.6% of time when present
- Phage (with cluster) where this start called: Archie\_134 (L2), Bazzle\_132 (L2), Bellis\_125 (L3), BigCheese\_133 (L2), Breezona\_134 (L2), Clautastrophe\_127 (L3), Crossroads\_137 (L2), 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\_129 (L3), Jubie\_128 (L3), Kahlid\_134 (L2), 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), Samty\_126 (L3), Snenia\_127 (L3), Vetrix\_134 (L2), Whirlwind\_129 (L3), Wigglewiggle\_135 (L2), Wilder\_135 (L2), Winky\_134 (L2), Zakai\_136 (L2), ZhongYanYuan\_132 (L2),

Start 9:

- Found in 40 of 41 ( 97.6% ) of genes in pham
- Manual Annotations of this start: 1 of 37
- Called 2.5% 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 8 was manually annotated 24 times for cluster L2.

Info for manual annotations of cluster L3:

- Start number 8 was manually annotated 11 times for cluster L3.
- Start number 9 was manually annotated 1 time for cluster L3.

Info for manual annotations of cluster L4:

- Start number 8 was manually annotated 1 time for cluster L4.

### Gene Information:

Gene: Archie\_134 Start: 70552, Stop: 70418, Start Num: 8

Candidate Starts for Archie\_134:

(Start: 8 @70552 has 36 MA's), (Start: 9 @70549 has 1 MA's), (11, 70507), (12, 70504), (15, 70447),

Gene: Bazzle\_132 Start: 70726, Stop: 70592, Start Num: 8

Candidate Starts for Bazzle\_132:

(Start: 8 @70726 has 36 MA's), (Start: 9 @70723 has 1 MA's), (11, 70681), (12, 70678), (13, 70669), (15, 70621), (16, 70612),

Gene: Bellis\_125 Start: 69290, Stop: 69141, Start Num: 8

Candidate Starts for Bellis\_125:

(Start: 8 @69290 has 36 MA's), (Start: 9 @69287 has 1 MA's), (10, 69254), (11, 69245), (14, 69212),

Gene: BigCheese\_133 Start: 70219, Stop: 70085, Start Num: 8

Candidate Starts for BigCheese\_133:

(Start: 8 @70219 has 36 MA's), (Start: 9 @70216 has 1 MA's), (11, 70174), (12, 70171), (13, 70162), (15, 70114), (16, 70105),

Gene: Breezona\_134 Start: 70554, Stop: 70420, Start Num: 8

Candidate Starts for Breezona\_134:

(Start: 8 @70554 has 36 MA's), (Start: 9 @70551 has 1 MA's), (11, 70509), (12, 70506), (13, 70497), (15, 70449), (16, 70440),

Gene: Clautastrophe\_127 Start: 69401, Stop: 69252, Start Num: 8

Candidate Starts for Clautastrophe\_127:

(Start: 8 @69401 has 36 MA's), (Start: 9 @69398 has 1 MA's), (10, 69365), (11, 69356), (14, 69323),

Gene: Crossroads\_137 Start: 70488, Stop: 70354, Start Num: 8

Candidate Starts for Crossroads\_137:

(Start: 8 @70488 has 36 MA's), (Start: 9 @70485 has 1 MA's), (11, 70443), (12, 70440), (13, 70431), (15, 70383), (16, 70374),

Gene: DrSeegs\_132 Start: 70554, Stop: 70420, Start Num: 8

Candidate Starts for DrSeegs\_132:

(Start: 8 @70554 has 36 MA's), (Start: 9 @70551 has 1 MA's), (11, 70509), (12, 70506), (13, 70497), (15, 70449), (16, 70440),

Gene: DuncansLeg\_128 Start: 69584, Stop: 69435, Start Num: 8

Candidate Starts for DuncansLeg\_128:

(Start: 8 @69584 has 36 MA's), (Start: 9 @69581 has 1 MA's), (10, 69548), (11, 69539), (14, 69506),

Gene: DyoEdafos\_147 Start: 71720, Stop: 71583, Start Num: 8

Candidate Starts for DyoEdafos\_147:

(7, 71735), (Start: 8 @71720 has 36 MA's),

Gene: Ellson\_126 Start: 69840, Stop: 69691, Start Num: 8

Candidate Starts for Ellson\_126:

(Start: 8 @69840 has 36 MA's), (Start: 9 @69837 has 1 MA's), (10, 69804), (11, 69795), (14, 69762),

Gene: Faith1\_132 Start: 69862, Stop: 69728, Start Num: 8

Candidate Starts for Faith1\_132:

(Start: 8 @69862 has 36 MA's), (Start: 9 @69859 has 1 MA's), (11, 69817), (12, 69814), (13, 69805), (15, 69757), (16, 69748),

Gene: Finemlucis\_133 Start: 71315, Stop: 71181, Start Num: 8

Candidate Starts for Finemlucis\_133:

(Start: 8 @71315 has 36 MA's), (Start: 9 @71312 has 1 MA's), (11, 71270), (13, 71258), (15, 71210), (16, 71201),

Gene: Finnry\_126 Start: 69638, Stop: 69489, Start Num: 8

Candidate Starts for Finnry\_126:

(Start: 8 @69638 has 36 MA's), (Start: 9 @69635 has 1 MA's), (10, 69602), (11, 69593), (14, 69560),

Gene: Gabriela\_134 Start: 69650, Stop: 69516, Start Num: 8

Candidate Starts for Gabriela\_134:

(Start: 8 @69650 has 36 MA's), (Start: 9 @69647 has 1 MA's), (11, 69605), (12, 69602), (13, 69593), (15, 69545), (16, 69536),

Gene: Gardann\_134 Start: 70327, Stop: 70193, Start Num: 8

Candidate Starts for Gardann\_134:

(Start: 8 @70327 has 36 MA's), (Start: 9 @70324 has 1 MA's), (11, 70282), (12, 70279), (13, 70270), (15, 70222), (16, 70213),

Gene: Itos\_134 Start: 68768, Stop: 68634, Start Num: 8

Candidate Starts for Itos\_134:

(Start: 8 @68768 has 36 MA's), (Start: 9 @68765 has 1 MA's), (11, 68723), (12, 68720), (13, 68711), (15, 68663), (16, 68654),

Gene: Jobypre\_129 Start: 69399, Stop: 69250, Start Num: 8

Candidate Starts for Jobypre\_129:

(Start: 8 @69399 has 36 MA's), (Start: 9 @69396 has 1 MA's), (10, 69363), (11, 69354), (14, 69321),

Gene: Jubie\_128 Start: 69534, Stop: 69385, Start Num: 8

Candidate Starts for Jubie\_128:

(Start: 8 @69534 has 36 MA's), (Start: 9 @69531 has 1 MA's), (10, 69498), (11, 69489), (14, 69456),

Gene: Kahlid\_134 Start: 70166, Stop: 70032, Start Num: 8

Candidate Starts for Kahlid\_134:

(1, 70472), (2, 70436), (4, 70247), (5, 70208), (6, 70184), (Start: 8 @70166 has 36 MA's), (Start: 9 @70163 has 1 MA's), (11, 70121), (12, 70118), (13, 70109), (15, 70061), (16, 70052),

Gene: Krypton555\_130 Start: 69780, Stop: 69631, Start Num: 8

Candidate Starts for Krypton555\_130:

(Start: 8 @69780 has 36 MA's), (Start: 9 @69777 has 1 MA's), (10, 69744), (11, 69735), (14, 69702),

Gene: Lewan\_136 Start: 70845, Stop: 70711, Start Num: 8

Candidate Starts for Lewan\_136:

(1, 71118), (2, 71082), (4, 70893), (6, 70863), (Start: 8 @70845 has 36 MA's), (Start: 9 @70842 has 1 MA's), (11, 70800), (12, 70797), (13, 70788), (15, 70740), (16, 70731),

Gene: LilDestine\_131 Start: 69336, Stop: 69202, Start Num: 8

Candidate Starts for LilDestine\_131:

(1, 69642), (2, 69606), (4, 69417), (5, 69378), (6, 69354), (Start: 8 @69336 has 36 MA's), (Start: 9 @69333 has 1 MA's), (11, 69291), (12, 69288), (13, 69279), (15, 69231), (16, 69222),

Gene: Loadrie\_135 Start: 70878, Stop: 70744, Start Num: 8

Candidate Starts for Loadrie\_135:

(Start: 8 @70878 has 36 MA's), (Start: 9 @70875 has 1 MA's), (11, 70833), (12, 70830), (13, 70821), (15, 70773), (16, 70764),

Gene: Lolly9\_128 Start: 69937, Stop: 69788, Start Num: 8

Candidate Starts for Lolly9\_128:

(Start: 8 @69937 has 36 MA's), (Start: 9 @69934 has 1 MA's), (10, 69901), (11, 69892), (14, 69859),

Gene: Lumos\_128 Start: 69396, Stop: 69247, Start Num: 8  
Candidate Starts for Lumos\_128:  
(Start: 8 @69396 has 36 MA's), (Start: 9 @69393 has 1 MA's), (10, 69360), (11, 69351), (14, 69318),

Gene: Miley16\_134 Start: 70554, Stop: 70420, Start Num: 8  
Candidate Starts for Miley16\_134:  
(Start: 8 @70554 has 36 MA's), (Start: 9 @70551 has 1 MA's), (11, 70509), (12, 70506), (13, 70497), (15, 70449), (16, 70440),

Gene: MiniLon\_132 Start: 69938, Stop: 69789, Start Num: 8  
Candidate Starts for MiniLon\_132:  
(Start: 8 @69938 has 36 MA's), (Start: 9 @69935 has 1 MA's), (10, 69902), (11, 69893), (14, 69860),

Gene: MkaliMitinis3\_136 Start: 70250, Stop: 70116, Start Num: 8  
Candidate Starts for MkaliMitinis3\_136:  
(Start: 8 @70250 has 36 MA's), (Start: 9 @70247 has 1 MA's), (11, 70205), (12, 70202), (13, 70193), (14, 70172), (15, 70145),

Gene: MsGreen\_129 Start: 69396, Stop: 69250, Start Num: 9  
Candidate Starts for MsGreen\_129:  
(Start: 8 @69399 has 36 MA's), (Start: 9 @69396 has 1 MA's), (10, 69363), (11, 69354), (14, 69321),

Gene: Netyap\_132 Start: 70268, Stop: 70134, Start Num: 8  
Candidate Starts for Netyap\_132:  
(Start: 8 @70268 has 36 MA's), (Start: 9 @70265 has 1 MA's), (11, 70223), (12, 70220), (13, 70211), (15, 70163), (16, 70154),

Gene: Nicholasp3\_135 Start: 70327, Stop: 70193, Start Num: 8  
Candidate Starts for Nicholasp3\_135:  
(Start: 8 @70327 has 36 MA's), (Start: 9 @70324 has 1 MA's), (11, 70282), (12, 70279), (13, 70270), (15, 70222), (16, 70213),

Gene: Samty\_126 Start: 69381, Stop: 69232, Start Num: 8  
Candidate Starts for Samty\_126:  
(Start: 8 @69381 has 36 MA's), (Start: 9 @69378 has 1 MA's), (10, 69345), (11, 69336), (14, 69303),

Gene: Snenia\_127 Start: 69400, Stop: 69251, Start Num: 8  
Candidate Starts for Snenia\_127:  
(Start: 8 @69400 has 36 MA's), (Start: 9 @69397 has 1 MA's), (10, 69364), (11, 69355), (14, 69322),

Gene: Vetrix\_134 Start: 70864, Stop: 70730, Start Num: 8  
Candidate Starts for Vetrix\_134:  
(Start: 8 @70864 has 36 MA's), (Start: 9 @70861 has 1 MA's), (11, 70819), (12, 70816), (13, 70807), (15, 70759), (16, 70750),

Gene: Whirlwind\_129 Start: 69872, Stop: 69723, Start Num: 8  
Candidate Starts for Whirlwind\_129:  
(Start: 8 @69872 has 36 MA's), (Start: 9 @69869 has 1 MA's), (11, 69827), (14, 69794),

Gene: Wigglewiggle\_135 Start: 70460, Stop: 70326, Start Num: 8  
Candidate Starts for Wigglewiggle\_135:  
(Start: 8 @70460 has 36 MA's), (Start: 9 @70457 has 1 MA's), (11, 70415), (12, 70412), (13, 70403), (15, 70355), (16, 70346),

Gene: Wilder\_135 Start: 70020, Stop: 69886, Start Num: 8

Candidate Starts for Wilder\_135:

(1, 70326), (2, 70290), (4, 70101), (5, 70062), (6, 70038), (Start: 8 @70020 has 36 MA's), (Start: 9 @70017 has 1 MA's), (11, 69975), (12, 69972), (13, 69963), (15, 69915), (16, 69906),

Gene: Winky\_134 Start: 70555, Stop: 70421, Start Num: 8

Candidate Starts for Winky\_134:

(Start: 8 @70555 has 36 MA's), (Start: 9 @70552 has 1 MA's), (11, 70510), (12, 70507), (13, 70498), (15, 70450), (16, 70441),

Gene: Zakai\_136 Start: 70265, Stop: 70131, Start Num: 8

Candidate Starts for Zakai\_136:

(Start: 8 @70265 has 36 MA's), (Start: 9 @70262 has 1 MA's), (11, 70220), (12, 70217), (13, 70208), (15, 70160), (16, 70151),

Gene: ZhongYanYuan\_132 Start: 70037, Stop: 69903, Start Num: 8

Candidate Starts for ZhongYanYuan\_132:

(3, 70136), (Start: 8 @70037 has 36 MA's), (Start: 9 @70034 has 1 MA's), (11, 69992), (12, 69989), (13, 69980), (15, 69932), (16, 69923),