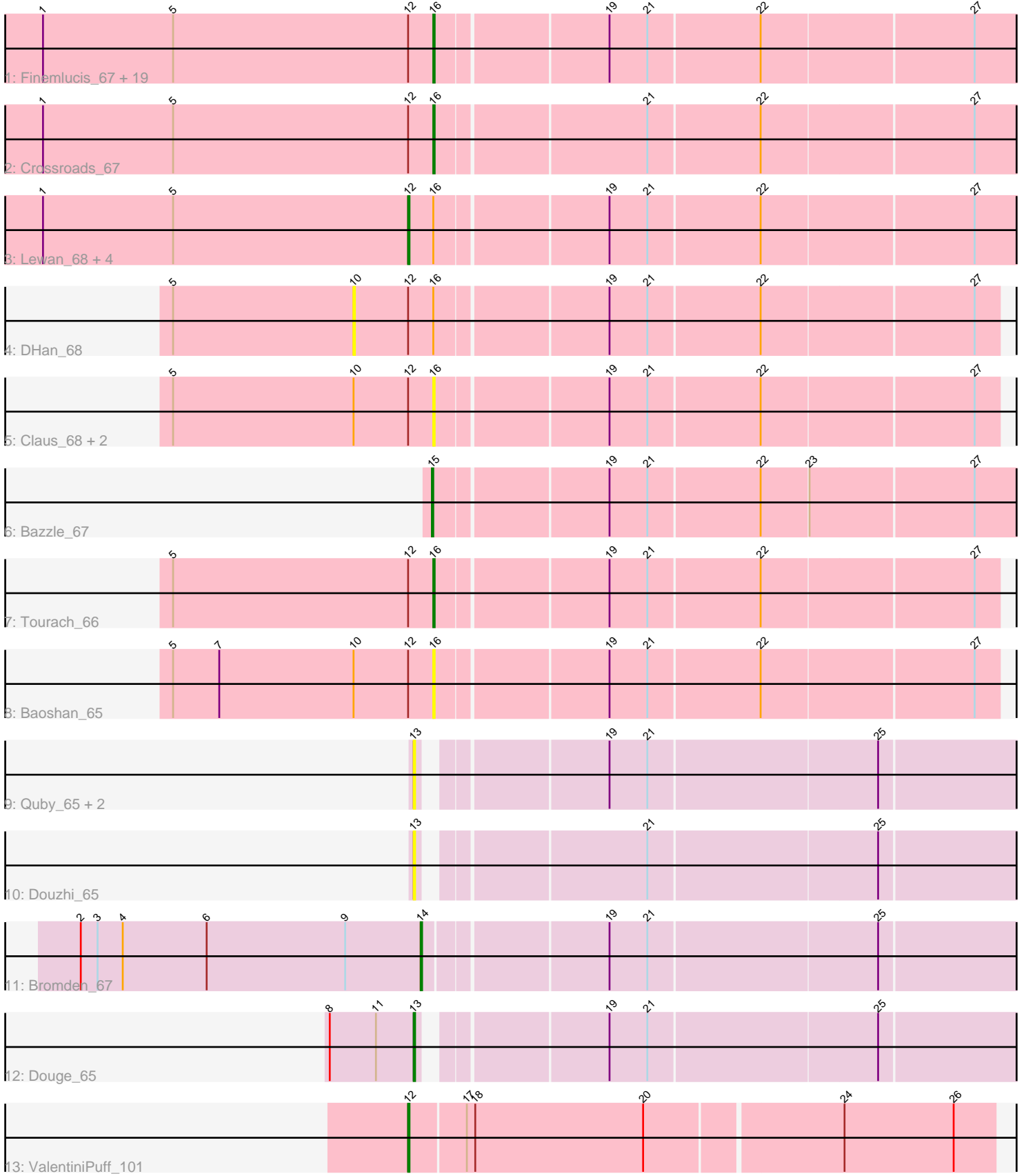


Pham 224715



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 224715 Report

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

Pham number 224715 has 40 members, 13 are drafts.

Phages represented in each track:

- Track 1 : Finemlucis_67, Breezona_67, Underpass_59, GuuelaD_66, Gardann_68, Wilder_68, Sarshaun_68, MkaliMitinis3_68, Loadrie_66, Miley16_67, Kahlid_67, Wigglewiggle_67, Gabriela_64, Itos_66, LilDestine_67, Zakai_68, Rumpelstiltskin_66, Rossetti_69, Hafay_69, Winky_67
- Track 2 : Crossroads_67
- Track 3 : Lewan_68, BobsGarage_67, BigCheese_67, Nicholasp3_67, Vetrix_67
- Track 4 : DHan_68
- Track 5 : Claus_68, ZhongYanYuan_66, DanBing_68
- Track 6 : Bazzle_67
- Track 7 : Tourach_66
- Track 8 : Baoshan_65
- Track 9 : Quby_65, FarmResident_67, PYPDinur_63
- Track 10 : Douzhi_65
- Track 11 : Bromden_67
- Track 12 : Douge_65
- Track 13 : ValentiniPuff_101

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

The start number called the most often in the published annotations is 16, it was called in 18 of the 27 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Baoshan_65, Breezona_67, Claus_68, Crossroads_67, DanBing_68, Finemlucis_67, Gabriela_64, Gardann_68, GuuelaD_66, Hafay_69, Itos_66, Kahlid_67, LilDestine_67, Loadrie_66, Miley16_67, MkaliMitinis3_68, Rossetti_69, Rumpelstiltskin_66, Sarshaun_68, Tourach_66, Underpass_59, Wigglewiggle_67, Wilder_68, Winky_67, Zakai_68, ZhongYanYuan_66,

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

- BigCheese_67, BobsGarage_67, DHan_68, Lewan_68, Nicholasp3_67, Vetrix_67,

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

- Bazzle_67, Bromden_67, Douge_65, Douzhi_65, FarmResident_67, PYPDinur_63, Quby_65, ValentiniPuff_101,

Summary by start number:

Start 10:

- Found in 5 of 40 (12.5%) of genes in pham
- No Manual Annotations of this start.
- Called 20.0% of time when present
- Phage (with cluster) where this start called: DHan_68 (L2),

Start 12:

- Found in 33 of 40 (82.5%) of genes in pham
- Manual Annotations of this start: 6 of 27
- Called 18.2% of time when present
- Phage (with cluster) where this start called: BigCheese_67 (L2), BobsGarage_67 (L2), Lewan_68 (L2), Nicholasp3_67 (L2), ValentiniPuff_101 (singleton), Vetrix_67 (L2),

Start 13:

- Found in 5 of 40 (12.5%) of genes in pham
- Manual Annotations of this start: 1 of 27
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Douge_65 (L4), Douzhi_65 (L4), FarmResident_67 (L4), PYPDinur_63 (L4), Quby_65 (L4),

Start 14:

- Found in 1 of 40 (2.5%) of genes in pham
- Manual Annotations of this start: 1 of 27
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bromden_67 (L4),

Start 15:

- Found in 1 of 40 (2.5%) of genes in pham
- Manual Annotations of this start: 1 of 27
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bazzle_67 (L2),

Start 16:

- Found in 32 of 40 (80.0%) of genes in pham
- Manual Annotations of this start: 18 of 27
- Called 81.2% of time when present
- Phage (with cluster) where this start called: Baoshan_65 (L2), Breezona_67 (L2), Claus_68 (L2), Crossroads_67 (L2), DanBing_68 (L2), Finemlucis_67 (L2), Gabriela_64 (L2), Gardann_68 (L2), GuuelaD_66 (L2), Hafay_69 (L2), Itos_66 (L2), Kahlid_67 (L2), LilDestine_67 (L2), Loadrie_66 (L2), Miley16_67 (L2), MkaliMitinis3_68 (L2), Rossetti_69 (L2), Rumpelstiltskin_66 (L2), Sarshaun_68 (L2), Tourach_66 (L2), Underpass_59 (L2), Wigglewiggles_67 (L2), Wilder_68 (L2), Winky_67 (L2), Zakai_68 (L2), ZhongYanYuan_66 (L2),

Summary by clusters:

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

Info for manual annotations of cluster L2:

- Start number 12 was manually annotated 5 times for cluster L2.
- Start number 15 was manually annotated 1 time for cluster L2.
- Start number 16 was manually annotated 18 times for cluster L2.

Info for manual annotations of cluster L4:

- Start number 13 was manually annotated 1 time for cluster L4.
- Start number 14 was manually annotated 1 time for cluster L4.

Gene Information:

Gene: Baoshan_65 Start: 46306, Stop: 46692, Start Num: 16

Candidate Starts for Baoshan_65:

(5, 46120), (7, 46153), (10, 46249), (Start: 12 @46288 has 6 MA's), (Start: 16 @46306 has 18 MA's), (19, 46423), (21, 46450), (22, 46528), (27, 46675),

Gene: Bazzle_67 Start: 46701, Stop: 47099, Start Num: 15

Candidate Starts for Bazzle_67:

(Start: 15 @46701 has 1 MA's), (19, 46818), (21, 46845), (22, 46923), (23, 46956), (27, 47070),

Gene: BigCheese_67 Start: 46345, Stop: 46764, Start Num: 12

Candidate Starts for BigCheese_67:

(1, 46084), (5, 46177), (Start: 12 @46345 has 6 MA's), (Start: 16 @46363 has 18 MA's), (19, 46480), (21, 46507), (22, 46585), (27, 46732),

Gene: BobsGarage_67 Start: 46345, Stop: 46764, Start Num: 12

Candidate Starts for BobsGarage_67:

(1, 46084), (5, 46177), (Start: 12 @46345 has 6 MA's), (Start: 16 @46363 has 18 MA's), (19, 46480), (21, 46507), (22, 46585), (27, 46732),

Gene: Breezona_67 Start: 46363, Stop: 46764, Start Num: 16

Candidate Starts for Breezona_67:

(1, 46084), (5, 46177), (Start: 12 @46345 has 6 MA's), (Start: 16 @46363 has 18 MA's), (19, 46480), (21, 46507), (22, 46585), (27, 46732),

Gene: Bromden_67 Start: 46292, Stop: 46696, Start Num: 14

Candidate Starts for Bromden_67:

(2, 46049), (3, 46061), (4, 46079), (6, 46139), (9, 46238), (Start: 14 @46292 has 1 MA's), (19, 46415), (21, 46442), (25, 46601),

Gene: Claus_68 Start: 46444, Stop: 46830, Start Num: 16

Candidate Starts for Claus_68:

(5, 46258), (10, 46387), (Start: 12 @46426 has 6 MA's), (Start: 16 @46444 has 18 MA's), (19, 46561), (21, 46588), (22, 46666), (27, 46813),

Gene: Crossroads_67 Start: 46441, Stop: 46839, Start Num: 16

Candidate Starts for Crossroads_67:

(1, 46162), (5, 46255), (Start: 12 @46423 has 6 MA's), (Start: 16 @46441 has 18 MA's), (21, 46585), (22, 46663), (27, 46810),

Gene: DHan_68 Start: 46287, Stop: 46730, Start Num: 10

Candidate Starts for DHan_68:

(5, 46158), (10, 46287), (Start: 12 @46326 has 6 MA's), (Start: 16 @46344 has 18 MA's), (19, 46461), (21, 46488), (22, 46566), (27, 46713),

Gene: DanBing_68 Start: 46313, Stop: 46699, Start Num: 16

Candidate Starts for DanBing_68:

(5, 46127), (10, 46256), (Start: 12 @46295 has 6 MA's), (Start: 16 @46313 has 18 MA's), (19, 46430), (21, 46457), (22, 46535), (27, 46682),

Gene: Douge_65 Start: 45034, Stop: 45432, Start Num: 13

Candidate Starts for Douge_65:

(8, 44974), (11, 45007), (Start: 13 @45034 has 1 MA's), (19, 45151), (21, 45178), (25, 45337),

Gene: Douzhi_65 Start: 45087, Stop: 45485, Start Num: 13

Candidate Starts for Douzhi_65:

(Start: 13 @45087 has 1 MA's), (21, 45231), (25, 45390),

Gene: FarmResident_67 Start: 45043, Stop: 45441, Start Num: 13

Candidate Starts for FarmResident_67:

(Start: 13 @45043 has 1 MA's), (19, 45160), (21, 45187), (25, 45346),

Gene: Finemlucis_67 Start: 46684, Stop: 47085, Start Num: 16

Candidate Starts for Finemlucis_67:

(1, 46405), (5, 46498), (Start: 12 @46666 has 6 MA's), (Start: 16 @46684 has 18 MA's), (19, 46801), (21, 46828), (22, 46906), (27, 47053),

Gene: Gabriela_64 Start: 44813, Stop: 45211, Start Num: 16

Candidate Starts for Gabriela_64:

(1, 44534), (5, 44627), (Start: 12 @44795 has 6 MA's), (Start: 16 @44813 has 18 MA's), (19, 44930), (21, 44957), (22, 45035), (27, 45182),

Gene: Gardann_68 Start: 46399, Stop: 46797, Start Num: 16

Candidate Starts for Gardann_68:

(1, 46120), (5, 46213), (Start: 12 @46381 has 6 MA's), (Start: 16 @46399 has 18 MA's), (19, 46516), (21, 46543), (22, 46621), (27, 46768),

Gene: GuuelaD_66 Start: 46478, Stop: 46879, Start Num: 16

Candidate Starts for GuuelaD_66:

(1, 46199), (5, 46292), (Start: 12 @46460 has 6 MA's), (Start: 16 @46478 has 18 MA's), (19, 46595), (21, 46622), (22, 46700), (27, 46847),

Gene: Hafay_69 Start: 46467, Stop: 46868, Start Num: 16

Candidate Starts for Hafay_69:

(1, 46188), (5, 46281), (Start: 12 @46449 has 6 MA's), (Start: 16 @46467 has 18 MA's), (19, 46584), (21, 46611), (22, 46689), (27, 46836),

Gene: Itos_66 Start: 45269, Stop: 45670, Start Num: 16

Candidate Starts for Itos_66:

(1, 44990), (5, 45083), (Start: 12 @45251 has 6 MA's), (Start: 16 @45269 has 18 MA's), (19, 45386), (21, 45413), (22, 45491), (27, 45638),

Gene: Kahlid_67 Start: 46369, Stop: 46770, Start Num: 16

Candidate Starts for Kahlid_67:

(1, 46090), (5, 46183), (Start: 12 @46351 has 6 MA's), (Start: 16 @46369 has 18 MA's), (19, 46486), (21, 46513), (22, 46591), (27, 46738),

Gene: Lewan_68 Start: 46405, Stop: 46821, Start Num: 12

Candidate Starts for Lewan_68:

(1, 46144), (5, 46237), (Start: 12 @46405 has 6 MA's), (Start: 16 @46423 has 18 MA's), (19, 46540), (21, 46567), (22, 46645), (27, 46792),

Gene: LilDestine_67 Start: 46396, Stop: 46797, Start Num: 16

Candidate Starts for LilDestine_67:

(1, 46117), (5, 46210), (Start: 12 @46378 has 6 MA's), (Start: 16 @46396 has 18 MA's), (19, 46513), (21, 46540), (22, 46618), (27, 46765),

Gene: Loadrie_66 Start: 46451, Stop: 46849, Start Num: 16

Candidate Starts for Loadrie_66:

(1, 46172), (5, 46265), (Start: 12 @46433 has 6 MA's), (Start: 16 @46451 has 18 MA's), (19, 46568), (21, 46595), (22, 46673), (27, 46820),

Gene: Miley16_67 Start: 46363, Stop: 46764, Start Num: 16

Candidate Starts for Miley16_67:

(1, 46084), (5, 46177), (Start: 12 @46345 has 6 MA's), (Start: 16 @46363 has 18 MA's), (19, 46480), (21, 46507), (22, 46585), (27, 46732),

Gene: MkaliMitinis3_68 Start: 46435, Stop: 46833, Start Num: 16

Candidate Starts for MkaliMitinis3_68:

(1, 46156), (5, 46249), (Start: 12 @46417 has 6 MA's), (Start: 16 @46435 has 18 MA's), (19, 46552), (21, 46579), (22, 46657), (27, 46804),

Gene: Nicholasp3_67 Start: 46381, Stop: 46797, Start Num: 12

Candidate Starts for Nicholasp3_67:

(1, 46120), (5, 46213), (Start: 12 @46381 has 6 MA's), (Start: 16 @46399 has 18 MA's), (19, 46516), (21, 46543), (22, 46621), (27, 46768),

Gene: PYPDinur_63 Start: 45117, Stop: 45515, Start Num: 13

Candidate Starts for PYPDinur_63:

(Start: 13 @45117 has 1 MA's), (19, 45234), (21, 45261), (25, 45420),

Gene: Quby_65 Start: 45009, Stop: 45407, Start Num: 13

Candidate Starts for Quby_65:

(Start: 13 @45009 has 1 MA's), (19, 45126), (21, 45153), (25, 45312),

Gene: Rossetti_69 Start: 46945, Stop: 47343, Start Num: 16

Candidate Starts for Rossetti_69:

(1, 46666), (5, 46759), (Start: 12 @46927 has 6 MA's), (Start: 16 @46945 has 18 MA's), (19, 47062), (21, 47089), (22, 47167), (27, 47314),

Gene: Rumpelstiltskin_66 Start: 45792, Stop: 46190, Start Num: 16

Candidate Starts for Rumpelstiltskin_66:

(1, 45513), (5, 45606), (Start: 12 @45774 has 6 MA's), (Start: 16 @45792 has 18 MA's), (19, 45909), (21, 45936), (22, 46014), (27, 46161),

Gene: Sarshaun_68 Start: 46459, Stop: 46857, Start Num: 16

Candidate Starts for Sarshaun_68:

(1, 46180), (5, 46273), (Start: 12 @46441 has 6 MA's), (Start: 16 @46459 has 18 MA's), (19, 46576), (21, 46603), (22, 46681), (27, 46828),

Gene: Tourach_66 Start: 46445, Stop: 46831, Start Num: 16

Candidate Starts for Tourach_66:

(5, 46259), (Start: 12 @46427 has 6 MA's), (Start: 16 @46445 has 18 MA's), (19, 46562), (21, 46589), (22, 46667), (27, 46814),

Gene: Underpass_59 Start: 41435, Stop: 41833, Start Num: 16

Candidate Starts for Underpass_59:

(1, 41156), (5, 41249), (Start: 12 @41417 has 6 MA's), (Start: 16 @41435 has 18 MA's), (19, 41552), (21, 41579), (22, 41657), (27, 41804),

Gene: ValentiniPuff_101 Start: 57583, Stop: 57990, Start Num: 12

Candidate Starts for ValentiniPuff_101:

(Start: 12 @57583 has 6 MA's), (17, 57622), (18, 57628), (20, 57748), (24, 57883), (26, 57961),

Gene: Vetric_67 Start: 46385, Stop: 46804, Start Num: 12

Candidate Starts for Vetric_67:

(1, 46124), (5, 46217), (Start: 12 @46385 has 6 MA's), (Start: 16 @46403 has 18 MA's), (19, 46520), (21, 46547), (22, 46625), (27, 46772),

Gene: Wigglewigggle_67 Start: 46423, Stop: 46821, Start Num: 16

Candidate Starts for Wigglewigggle_67:

(1, 46144), (5, 46237), (Start: 12 @46405 has 6 MA's), (Start: 16 @46423 has 18 MA's), (19, 46540), (21, 46567), (22, 46645), (27, 46792),

Gene: Wilder_68 Start: 46369, Stop: 46770, Start Num: 16

Candidate Starts for Wilder_68:

(1, 46090), (5, 46183), (Start: 12 @46351 has 6 MA's), (Start: 16 @46369 has 18 MA's), (19, 46486), (21, 46513), (22, 46591), (27, 46738),

Gene: Winky_67 Start: 46363, Stop: 46764, Start Num: 16

Candidate Starts for Winky_67:

(1, 46084), (5, 46177), (Start: 12 @46345 has 6 MA's), (Start: 16 @46363 has 18 MA's), (19, 46480), (21, 46507), (22, 46585), (27, 46732),

Gene: Zakai_68 Start: 46689, Stop: 47090, Start Num: 16

Candidate Starts for Zakai_68:

(1, 46410), (5, 46503), (Start: 12 @46671 has 6 MA's), (Start: 16 @46689 has 18 MA's), (19, 46806), (21, 46833), (22, 46911), (27, 47058),

Gene: ZhongYanYuan_66 Start: 46258, Stop: 46644, Start Num: 16

Candidate Starts for ZhongYanYuan_66:

(5, 46072), (10, 46201), (Start: 12 @46240 has 6 MA's), (Start: 16 @46258 has 18 MA's), (19, 46375), (21, 46402), (22, 46480), (27, 46627),