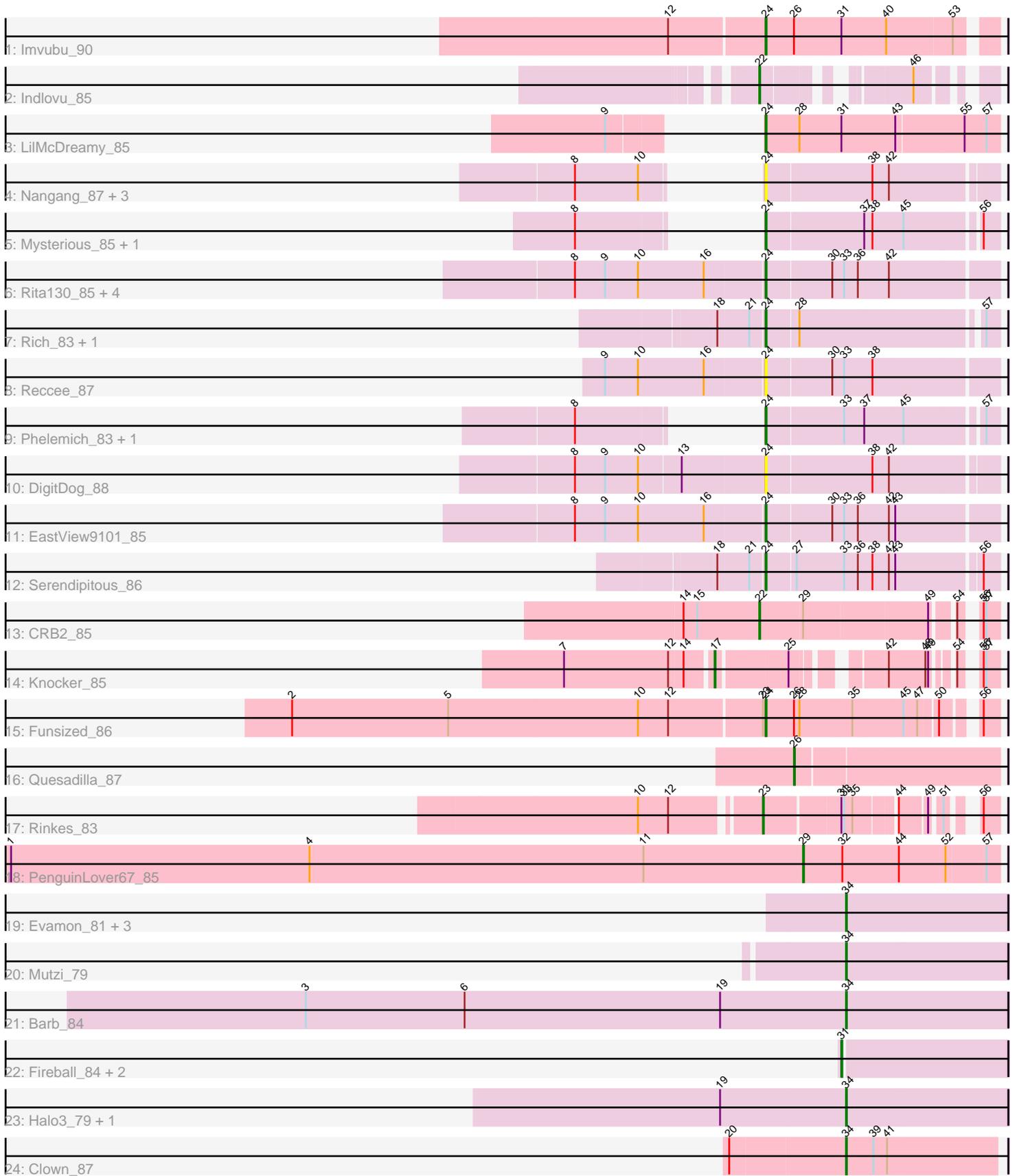


# Pham 283971



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 283971 Report

This analysis was run 02/23/26 on database version 636.

Pham number 283971 has 40 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Imvubu\_90
- Track 2 : Indlovu\_85
- Track 3 : LilMcDreamy\_85
- Track 4 : Nangang\_87, Shenyu\_87, StinkyVeggy\_84, KarasumaRum\_84
- Track 5 : Mysterious\_85, Nehemiah\_85
- Track 6 : Rita130\_85, Donny\_86, Acadian\_86, SirJeffery\_84, Suigeneris\_87
- Track 7 : Rich\_83, Bae\_84
- Track 8 : Reccee\_87
- Track 9 : Phelemich\_83, Reprobate\_85
- Track 10 : DigitDog\_88
- Track 11 : EastView9101\_85
- Track 12 : Serendipitous\_86
- Track 13 : CRB2\_85
- Track 14 : Knocker\_85
- Track 15 : Funsized\_86
- Track 16 : Quesadilla\_87
- Track 17 : Rinkes\_83
- Track 18 : PenguinLover67\_85
- Track 19 : Evamon\_81, SmokingBunny\_82, Salvador\_81, Togo\_81
- Track 20 : Mutzi\_79
- Track 21 : Barb\_84
- Track 22 : Fireball\_84, TillyBobJoe\_79, Nubi\_83
- Track 23 : Halo3\_79, CoveyB\_82
- Track 24 : Clown\_87

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

The start number called the most often in the published annotations is 24, it was called in 13 of the 31 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acadian\_86, Bae\_84, DigitDog\_88, Donny\_86, EastView9101\_85, Funsized\_86, Imvubu\_90, KarasumaRum\_84, LilMcDreamy\_85, Mysterious\_85, Nangang\_87, Nehemiah\_85, Phelemich\_83, Reccee\_87, Reprobate\_85, Rich\_83, Rita130\_85,

Serendipitous\_86, Shenyu\_87, SirJeffery\_84, StinkyVeggy\_84, Suigeneris\_87,

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

- 

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

- Barb\_84, CRB2\_85, Clown\_87, CoveyB\_82, Evamon\_81, Fireball\_84, Halo3\_79, Indlovu\_85, Knocker\_85, Mutzi\_79, Nubi\_83, PenguinLover67\_85, Quesadilla\_87, Rinkes\_83, Salvador\_81, SmokingBunny\_82, TillyBobJoe\_79, Togo\_81,

### Summary by start number:

Start 17:

- Found in 1 of 40 ( 2.5% ) of genes in pham
- Manual Annotations of this start: 1 of 31
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Knocker\_85 (B9),

Start 22:

- Found in 2 of 40 ( 5.0% ) of genes in pham
- Manual Annotations of this start: 2 of 31
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CRB2\_85 (B9), Indlovu\_85 (B11),

Start 23:

- Found in 2 of 40 ( 5.0% ) of genes in pham
- Manual Annotations of this start: 1 of 31
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Rinkes\_83 (B9),

Start 24:

- Found in 22 of 40 ( 55.0% ) of genes in pham
- Manual Annotations of this start: 13 of 31
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Acadian\_86 (B5), Bae\_84 (B5), DigitDog\_88 (B5), Donny\_86 (B5), EastView9101\_85 (B5), Funsized\_86 (B9), Imvubu\_90 (B10), KarasumaRum\_84 (B5), LilMcDreamy\_85 (B12), Mysterious\_85 (B5), Nangang\_87 (B5), Nehemiah\_85 (B5), Phelemich\_83 (B5), Reccee\_87 (B5), Reprobate\_85 (B5), Rich\_83 (B5), Rita130\_85 (B5), Serendipitous\_86 (B5), Shenyu\_87 (B5), SirJeffery\_84 (B5), StinkyVeggy\_84 (B5), Suigeneris\_87 (B5),

Start 26:

- Found in 3 of 40 ( 7.5% ) of genes in pham
- Manual Annotations of this start: 1 of 31
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Quesadilla\_87 (B9),

Start 29:

- Found in 2 of 40 ( 5.0% ) of genes in pham
- Manual Annotations of this start: 1 of 31
- Called 50.0% of time when present
- Phage (with cluster) where this start called: PenguinLover67\_85 (B9),

Start 31:

- Found in 6 of 40 ( 15.0% ) of genes in pham
- Manual Annotations of this start: 3 of 31
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Fireball\_84 (DC1), Nubi\_83 (DC1), TillyBobJoe\_79 (DC1),

Start 34:

- Found in 9 of 40 ( 22.5% ) of genes in pham
- Manual Annotations of this start: 9 of 31
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Barb\_84 (DC1), Clown\_87 (DC2), CoveyB\_82 (DC1), Evamon\_81 (DC1), Halo3\_79 (DC1), Mutzi\_79 (DC1), Salvador\_81 (DC1), SmokingBunny\_82 (DC1), Togo\_81 (DC1),

**Summary by clusters:**

There are 7 clusters represented in this pham: B5, B12, B10, B11, DC2, B9, DC1,

Info for manual annotations of cluster B10:

- Start number 24 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster B11:

- Start number 22 was manually annotated 1 time for cluster B11.

Info for manual annotations of cluster B12:

- Start number 24 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B5:

- Start number 24 was manually annotated 10 times for cluster B5.

Info for manual annotations of cluster B9:

- Start number 17 was manually annotated 1 time for cluster B9.
- Start number 22 was manually annotated 1 time for cluster B9.
- Start number 23 was manually annotated 1 time for cluster B9.
- Start number 24 was manually annotated 1 time for cluster B9.
- Start number 26 was manually annotated 1 time for cluster B9.
- Start number 29 was manually annotated 1 time for cluster B9.

Info for manual annotations of cluster DC1:

- Start number 31 was manually annotated 3 times for cluster DC1.
- Start number 34 was manually annotated 8 times for cluster DC1.

Info for manual annotations of cluster DC2:

- Start number 34 was manually annotated 1 time for cluster DC2.

**Gene Information:**

Gene: Acadian\_86 Start: 64696, Stop: 64454, Start Num: 24

Candidate Starts for Acadian\_86:

(8, 64897), (9, 64864), (10, 64828), (16, 64759), (Start: 24 @64696 has 13 MA's), (30, 64627), (33, 64615), (36, 64600), (42, 64567),

Gene: Bae\_84 Start: 65056, Stop: 64823, Start Num: 24

Candidate Starts for Bae\_84:

(18, 65104), (21, 65071), (Start: 24 @65056 has 13 MA's), (28, 65023), (57, 64837),

Gene: Barb\_84 Start: 53980, Stop: 54156, Start Num: 34

Candidate Starts for Barb\_84:

(3, 53392), (6, 53566), (19, 53845), (Start: 34 @53980 has 9 MA's),

Gene: CRB2\_85 Start: 66826, Stop: 66605, Start Num: 22

Candidate Starts for CRB2\_85:

(14, 66907), (15, 66892), (Start: 22 @66826 has 2 MA's), (Start: 29 @66781 has 1 MA's), (49, 66652), (54, 66634), (56, 66622), (57, 66619),

Gene: Clown\_87 Start: 55358, Stop: 55522, Start Num: 34

Candidate Starts for Clown\_87:

(20, 55235), (Start: 34 @55358 has 9 MA's), (39, 55388), (41, 55403),

Gene: CoveyB\_82 Start: 53467, Stop: 53643, Start Num: 34

Candidate Starts for CoveyB\_82:

(19, 53332), (Start: 34 @53467 has 9 MA's),

Gene: DigitDog\_88 Start: 65196, Stop: 64957, Start Num: 24

Candidate Starts for DigitDog\_88:

(8, 65397), (9, 65364), (10, 65328), (13, 65286), (Start: 24 @65196 has 13 MA's), (38, 65085), (42, 65067),

Gene: Donny\_86 Start: 64530, Stop: 64288, Start Num: 24

Candidate Starts for Donny\_86:

(8, 64731), (9, 64698), (10, 64662), (16, 64593), (Start: 24 @64530 has 13 MA's), (30, 64461), (33, 64449), (36, 64434), (42, 64401),

Gene: EastView9101\_85 Start: 64441, Stop: 64199, Start Num: 24

Candidate Starts for EastView9101\_85:

(8, 64642), (9, 64609), (10, 64573), (16, 64504), (Start: 24 @64441 has 13 MA's), (30, 64372), (33, 64360), (36, 64345), (42, 64312), (43, 64306),

Gene: Evamon\_81 Start: 53374, Stop: 53550, Start Num: 34

Candidate Starts for Evamon\_81:

(Start: 34 @53374 has 9 MA's),

Gene: Fireball\_84 Start: 53836, Stop: 54012, Start Num: 31

Candidate Starts for Fireball\_84:

(Start: 31 @53836 has 3 MA's),

Gene: Funsized\_86 Start: 67570, Stop: 67346, Start Num: 24

Candidate Starts for Funsized\_86:

(2, 68083), (5, 67912), (10, 67705), (12, 67672), (Start: 23 @67573 has 1 MA's), (Start: 24 @67570 has 13 MA's), (Start: 26 @67540 has 1 MA's), (28, 67534), (35, 67477), (45, 67423), (47, 67408), (50, 67390), (56, 67363),

Gene: Halo3\_79 Start: 53805, Stop: 53981, Start Num: 34

Candidate Starts for Halo3\_79:

(19, 53670), (Start: 34 @53805 has 9 MA's),

Gene: Imvubu\_90 Start: 65577, Stop: 65344, Start Num: 24

Candidate Starts for Imvubu\_90:

(12, 65679), (Start: 24 @65577 has 13 MA's), (Start: 26 @65547 has 1 MA's), (Start: 31 @65496 has 3 MA's), (40, 65448), (53, 65379),

Gene: Indlovu\_85 Start: 66174, Stop: 65995, Start Num: 22

Candidate Starts for Indlovu\_85:

(Start: 22 @66174 has 2 MA's), (46, 66054),

Gene: KarasumaRum\_84 Start: 64594, Stop: 64355, Start Num: 24

Candidate Starts for KarasumaRum\_84:

(8, 64690), (10, 64621), (Start: 24 @64594 has 13 MA's), (38, 64483), (42, 64465),

Gene: Knocker\_85 Start: 66543, Stop: 66316, Start Num: 17

Candidate Starts for Knocker\_85:

(7, 66699), (12, 66585), (14, 66570), (Start: 17 @66543 has 1 MA's), (25, 66474), (42, 66402), (48, 66363), (49, 66360), (54, 66345), (56, 66333), (57, 66330),

Gene: LilMcDreamy\_85 Start: 64982, Stop: 64734, Start Num: 24

Candidate Starts for LilMcDreamy\_85:

(9, 65042), (Start: 24 @64982 has 13 MA's), (28, 64946), (Start: 31 @64901 has 3 MA's), (43, 64844), (55, 64772), (57, 64748),

Gene: Mutzi\_79 Start: 53940, Stop: 54116, Start Num: 34

Candidate Starts for Mutzi\_79:

(Start: 34 @53940 has 9 MA's),

Gene: Mysterious\_85 Start: 64739, Stop: 64503, Start Num: 24

Candidate Starts for Mysterious\_85:

(8, 64835), (Start: 24 @64739 has 13 MA's), (37, 64637), (38, 64628), (45, 64595), (56, 64520),

Gene: Nangang\_87 Start: 65197, Stop: 64958, Start Num: 24

Candidate Starts for Nangang\_87:

(8, 65293), (10, 65224), (Start: 24 @65197 has 13 MA's), (38, 65086), (42, 65068),

Gene: Nehemiah\_85 Start: 64619, Stop: 64383, Start Num: 24

Candidate Starts for Nehemiah\_85:

(8, 64715), (Start: 24 @64619 has 13 MA's), (37, 64517), (38, 64508), (45, 64475), (56, 64400),

Gene: Nubi\_83 Start: 53251, Stop: 53427, Start Num: 31

Candidate Starts for Nubi\_83:

(Start: 31 @53251 has 3 MA's),

Gene: PenguinLover67\_85 Start: 64569, Stop: 64360, Start Num: 29

Candidate Starts for PenguinLover67\_85:

(1, 65436), (4, 65109), (11, 64743), (Start: 29 @64569 has 1 MA's), (32, 64527), (44, 64467), (52, 64416), (57, 64374),

Gene: Phelemich\_83 Start: 64664, Stop: 64428, Start Num: 24

Candidate Starts for Phelemich\_83:

(8, 64760), (Start: 24 @64664 has 13 MA's), (33, 64583), (37, 64562), (45, 64520), (57, 64442),

Gene: Quesadilla\_87 Start: 65727, Stop: 65512, Start Num: 26

Candidate Starts for Quesadilla\_87:

(Start: 26 @65727 has 1 MA's),

Gene: Reccee\_87 Start: 65000, Stop: 64758, Start Num: 24

Candidate Starts for Reccee\_87:

(9, 65168), (10, 65132), (16, 65063), (Start: 24 @65000 has 13 MA's), (30, 64931), (33, 64919), (38, 64889),

Gene: Reprobate\_85 Start: 64669, Stop: 64433, Start Num: 24

Candidate Starts for Reprobate\_85:

(8, 64765), (Start: 24 @64669 has 13 MA's), (33, 64588), (37, 64567), (45, 64525), (57, 64447),

Gene: Rich\_83 Start: 65123, Stop: 64890, Start Num: 24

Candidate Starts for Rich\_83:

(18, 65171), (21, 65138), (Start: 24 @65123 has 13 MA's), (28, 65090), (57, 64904),

Gene: Rinkes\_83 Start: 65423, Stop: 65226, Start Num: 23

Candidate Starts for Rinkes\_83:

(10, 65543), (12, 65510), (Start: 23 @65423 has 1 MA's), (Start: 31 @65348 has 3 MA's), (33, 65345), (35, 65336), (44, 65297), (49, 65270), (51, 65261), (56, 65243),

Gene: Rita130\_85 Start: 64670, Stop: 64428, Start Num: 24

Candidate Starts for Rita130\_85:

(8, 64871), (9, 64838), (10, 64802), (16, 64733), (Start: 24 @64670 has 13 MA's), (30, 64601), (33, 64589), (36, 64574), (42, 64541),

Gene: Salvador\_81 Start: 53372, Stop: 53548, Start Num: 34

Candidate Starts for Salvador\_81:

(Start: 34 @53372 has 9 MA's),

Gene: Serendipitous\_86 Start: 64542, Stop: 64303, Start Num: 24

Candidate Starts for Serendipitous\_86:

(18, 64590), (21, 64557), (Start: 24 @64542 has 13 MA's), (27, 64512), (33, 64461), (36, 64446), (38, 64431), (42, 64413), (43, 64407), (56, 64320),

Gene: Shenyu\_87 Start: 65195, Stop: 64974, Start Num: 24

Candidate Starts for Shenyu\_87:

(8, 65291), (10, 65222), (Start: 24 @65195 has 13 MA's), (38, 65084), (42, 65066),

Gene: SirJeffery\_84 Start: 64480, Stop: 64238, Start Num: 24

Candidate Starts for SirJeffery\_84:

(8, 64681), (9, 64648), (10, 64612), (16, 64543), (Start: 24 @64480 has 13 MA's), (30, 64411), (33, 64399), (36, 64384), (42, 64351),

Gene: SmokingBunny\_82 Start: 54368, Stop: 54544, Start Num: 34

Candidate Starts for SmokingBunny\_82:

(Start: 34 @54368 has 9 MA's),

Gene: StinkyVeggy\_84 Start: 64594, Stop: 64355, Start Num: 24

Candidate Starts for StinkyVeggy\_84:

(8, 64690), (10, 64621), (Start: 24 @64594 has 13 MA's), (38, 64483), (42, 64465),

Gene: Suigeneris\_87 Start: 64918, Stop: 64676, Start Num: 24

Candidate Starts for Suigeneris\_87:

(8, 65119), (9, 65086), (10, 65050), (16, 64981), (Start: 24 @64918 has 13 MA's), (30, 64849), (33, 64837), (36, 64822), (42, 64789),

Gene: TillyBobJoe\_79 Start: 53254, Stop: 53430, Start Num: 31

Candidate Starts for TillyBobJoe\_79:

(Start: 31 @53254 has 3 MA's),

Gene: Togo\_81 Start: 54368, Stop: 54544, Start Num: 34

Candidate Starts for Togo\_81:

(Start: 34 @54368 has 9 MA's),