

# Pham 164001



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 164001 Report

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

Pham number 164001 has 16 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Indlovu\_59
- Track 2 : LilMcDreamy\_59
- Track 3 : BirdsNest\_66
- Track 4 : Suigeneris\_64, SirJeffery\_62, Acadian\_63, Donny\_64
- Track 5 : Phelemich\_60, Reprobate\_61
- Track 6 : Mysterious\_62
- Track 7 : Serendipitous\_61
- Track 8 : Saguaro\_60
- Track 9 : PenguinLover67\_59
- Track 10 : CRB2\_60
- Track 11 : Knocker\_62
- Track 12 : Quesadilla\_62

### ***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 12 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acadian\_63, BirdsNest\_66, Donny\_64, Indlovu\_59, LilMcDreamy\_59, Mysterious\_62, PenguinLover67\_59, Phelemich\_60, Quesadilla\_62, Reprobate\_61, Saguaro\_60, Serendipitous\_61, SirJeffery\_62, Suigeneris\_64,

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

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

- CRB2\_60, Knocker\_62,

### **Summary by start number:**

Start 13:

- Found in 1 of 16 ( 6.2% ) of genes in pham
- Manual Annotations of this start: 1 of 14

- Called 100.0% of time when present
- Phage (with cluster) where this start called: CRB2\_60 (B9),

Start 14:

- Found in 14 of 16 ( 87.5% ) of genes in pham
- Manual Annotations of this start: 12 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Acadian\_63 (B5), BirdsNest\_66 (B13), Donny\_64 (B5), Indlovu\_59 (B11), LilMcDreamy\_59 (B12), Mysterious\_62 (B5), PenguinLover67\_59 (B9), Phelemich\_60 (B5), Quesadilla\_62 (B9), Reprobate\_61 (B5), Saguaro\_60 (B7), Serendipitous\_61 (B5), SirJeffery\_62 (B5), Suigeneris\_64 (B5),

Start 20:

- Found in 1 of 16 ( 6.2% ) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Knocker\_62 (B9),

### **Summary by clusters:**

There are 6 clusters represented in this pham: B5, B7, B12, B13, B11, B9,

Info for manual annotations of cluster B11:

- Start number 14 was manually annotated 1 time for cluster B11.

Info for manual annotations of cluster B12:

- Start number 14 was manually annotated 1 time for cluster B12.

Info for manual annotations of cluster B13:

- Start number 14 was manually annotated 1 time for cluster B13.

Info for manual annotations of cluster B5:

- Start number 14 was manually annotated 6 times for cluster B5.

Info for manual annotations of cluster B7:

- Start number 14 was manually annotated 1 time for cluster B7.

Info for manual annotations of cluster B9:

- Start number 13 was manually annotated 1 time for cluster B9.
- Start number 14 was manually annotated 2 times for cluster B9.
- Start number 20 was manually annotated 1 time for cluster B9.

### **Gene Information:**

Gene: Acadian\_63 Start: 56338, Stop: 56117, Start Num: 14

Candidate Starts for Acadian\_63:

(9, 56404), (Start: 14 @56338 has 12 MA's), (16, 56320), (17, 56314), (19, 56308), (21, 56305), (27, 56233), (30, 56215), (31, 56212), (33, 56194), (35, 56182),

Gene: BirdsNest\_66 Start: 56050, Stop: 55850, Start Num: 14

Candidate Starts for BirdsNest\_66:

(8, 56140), (Start: 14 @56050 has 12 MA's), (22, 56017), (26, 55972), (32, 55939), (33, 55927),

Gene: CRB2\_60 Start: 56989, Stop: 56720, Start Num: 13

Candidate Starts for CRB2\_60:

(5, 57070), (10, 57031), (Start: 13 @56989 has 1 MA's), (15, 56959), (29, 56866), (37, 56809),

Gene: Donny\_64 Start: 56384, Stop: 56163, Start Num: 14

Candidate Starts for Donny\_64:

(9, 56450), (Start: 14 @56384 has 12 MA's), (16, 56366), (17, 56360), (19, 56354), (21, 56351), (27, 56279), (30, 56261), (31, 56258), (33, 56240), (35, 56228),

Gene: Indlovu\_59 Start: 55940, Stop: 55647, Start Num: 14

Candidate Starts for Indlovu\_59:

(2, 56192), (Start: 14 @55940 has 12 MA's), (21, 55907), (23, 55898), (27, 55835), (33, 55796),

Gene: Knocker\_62 Start: 57396, Stop: 57175, Start Num: 20

Candidate Starts for Knocker\_62:

(6, 57525), (12, 57483), (Start: 20 @57396 has 1 MA's), (24, 57378), (25, 57357), (34, 57285), (36, 57276), (38, 57261), (39, 57252), (41, 57237), (42, 57228), (44, 57207),

Gene: LilMcDreamy\_59 Start: 55604, Stop: 55359, Start Num: 14

Candidate Starts for LilMcDreamy\_59:

(1, 55937), (3, 55862), (Start: 14 @55604 has 12 MA's), (22, 55565), (24, 55553), (32, 55472), (33, 55460), (35, 55448),

Gene: Mysterious\_62 Start: 56228, Stop: 55983, Start Num: 14

Candidate Starts for Mysterious\_62:

(9, 56294), (Start: 14 @56228 has 12 MA's), (17, 56207), (19, 56201), (21, 56198), (27, 56126), (30, 56108), (33, 56087),

Gene: PenguinLover67\_59 Start: 55991, Stop: 55764, Start Num: 14

Candidate Starts for PenguinLover67\_59:

(7, 56081), (11, 56054), (Start: 14 @55991 has 12 MA's), (28, 55889),

Gene: Phelemich\_60 Start: 56226, Stop: 55978, Start Num: 14

Candidate Starts for Phelemich\_60:

(9, 56292), (Start: 14 @56226 has 12 MA's), (17, 56205), (21, 56196), (27, 56124), (30, 56106), (33, 56085),

Gene: Quesadilla\_62 Start: 56441, Stop: 56175, Start Num: 14

Candidate Starts for Quesadilla\_62:

(Start: 14 @56441 has 12 MA's), (24, 56390), (29, 56324), (31, 56315), (33, 56294), (37, 56267),

Gene: Reprobate\_61 Start: 56231, Stop: 55983, Start Num: 14

Candidate Starts for Reprobate\_61:

(9, 56297), (Start: 14 @56231 has 12 MA's), (17, 56210), (21, 56201), (27, 56129), (30, 56111), (33, 56090),

Gene: Saguaro\_60 Start: 55761, Stop: 55492, Start Num: 14

Candidate Starts for Saguaro\_60:

(Start: 14 @55761 has 12 MA's), (18, 55734), (33, 55617), (37, 55590), (40, 55569), (43, 55548),

Gene: Serendipitous\_61 Start: 55769, Stop: 55551, Start Num: 14

Candidate Starts for Serendipitous\_61:

(4, 55931), (7, 55841), (9, 55835), (Start: 14 @55769 has 12 MA's), (21, 55739), (27, 55667), (30, 55649), (33, 55628),

Gene: SirJeffery\_62 Start: 56415, Stop: 56194, Start Num: 14

Candidate Starts for SirJeffery\_62:

(9, 56481), (Start: 14 @56415 has 12 MA's), (16, 56397), (17, 56391), (19, 56385), (21, 56382), (27, 56310), (30, 56292), (31, 56289), (33, 56271), (35, 56259),

Gene: Suigeneris\_64 Start: 56533, Stop: 56312, Start Num: 14

Candidate Starts for Suigeneris\_64:

(9, 56599), (Start: 14 @56533 has 12 MA's), (16, 56515), (17, 56509), (19, 56503), (21, 56500), (27, 56428), (30, 56410), (31, 56407), (33, 56389), (35, 56377),