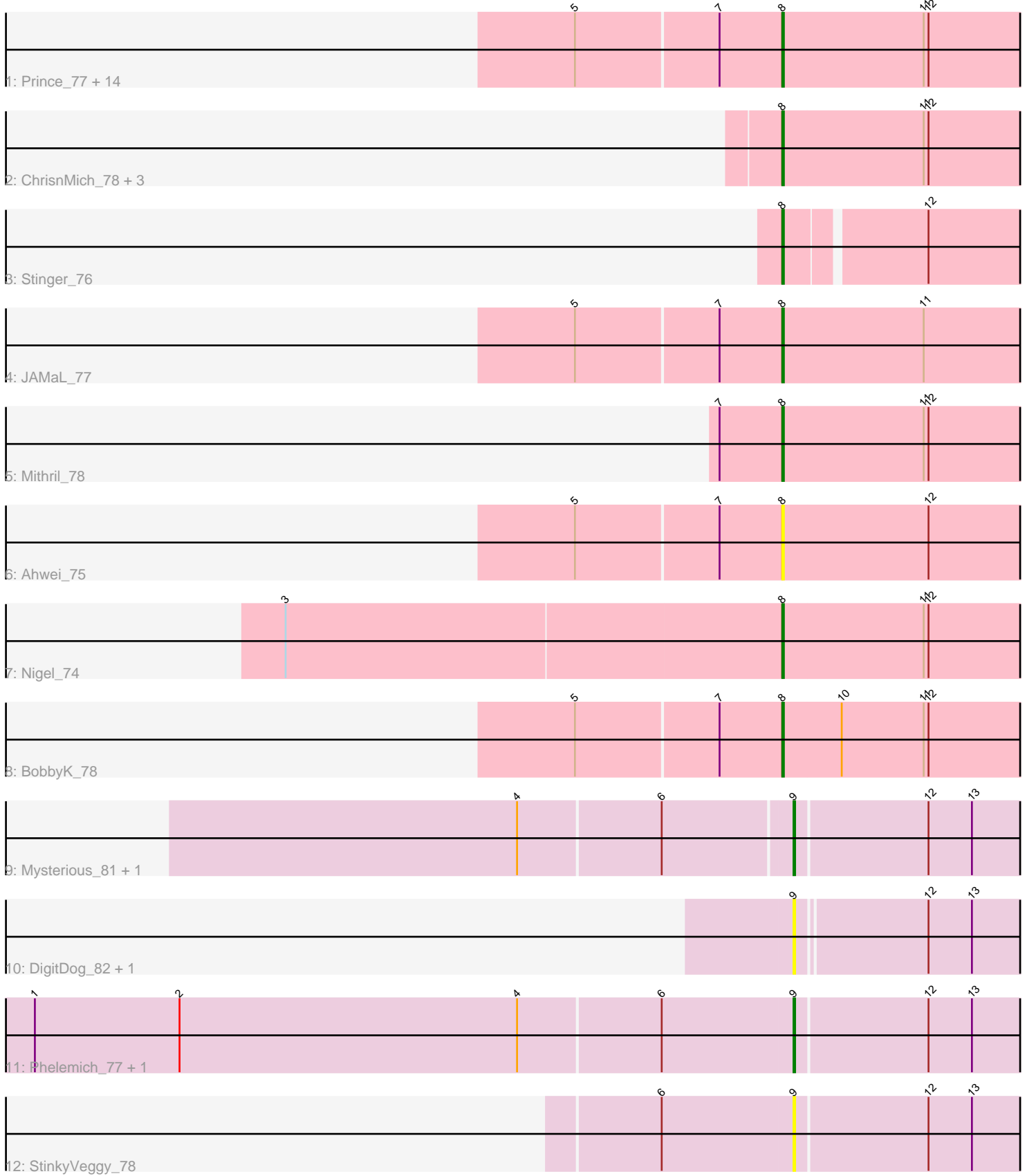


Pham 3123



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 3123 Report

This analysis was run 07/09/24 on database version 566.

Pham number 3123 has 32 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Prince\_77, Apex\_79, Fortunato\_77, VioletZ\_80, Zemanar\_78, Austelle\_77, Waleliano\_77, Hangman\_79, Magpie\_75, Frederick\_78, BrownCNA\_79, Lolalove\_80, RawrgerThat\_78, Hydro\_79, Mudslide\_77
- Track 2 : ChrisnMich\_78, Cooper\_79, Nanao\_77, Poster\_76
- Track 3 : Stinger\_76
- Track 4 : JAMaL\_77
- Track 5 : Mithril\_78
- Track 6 : Ahwei\_75
- Track 7 : Nigel\_74
- Track 8 : BobbyK\_78
- Track 9 : Mysterious\_81, Serendipitous\_80
- Track 10 : DigitDog\_82, Nangang\_81
- Track 11 : Phelemich\_77, Reprobate\_79
- Track 12 : StinkyVeggy\_78

### ***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 20 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Ahwei\_75, Apex\_79, Austelle\_77, BobbyK\_78, BrownCNA\_79, ChrisnMich\_78, Cooper\_79, Fortunato\_77, Frederick\_78, Hangman\_79, Hydro\_79, JAMaL\_77, Lolalove\_80, Magpie\_75, Mithril\_78, Mudslide\_77, Nanao\_77, Nigel\_74, Poster\_76, Prince\_77, RawrgerThat\_78, Stinger\_76, VioletZ\_80, Waleliano\_77, Zemanar\_78,

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

- 

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

- DigitDog\_82, Mysterious\_81, Nangang\_81, Phelemich\_77, Reprobate\_79, Serendipitous\_80, StinkyVeggy\_78,

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

Start 8:

- Found in 25 of 32 ( 78.1% ) of genes in pham
- Manual Annotations of this start: 20 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ahwei\_75 (B4), Apex\_79 (B4), Austelle\_77 (B4), BobbyK\_78 (B4), BrownCNA\_79 (B4), ChrisnMich\_78 (B4), Cooper\_79 (B4), Fortunato\_77 (B4), Frederick\_78 (B4), Hangman\_79 (B4), Hydro\_79 (B4), JAMaL\_77 (B4), Lolalove\_80 (B4), Magpie\_75 (B4), Mithril\_78 (B4), Mudslide\_77 (B4), Nanao\_77 (B4), Nigel\_74 (B4), Poster\_76 (B4), Prince\_77 (B4), RawrgerThat\_78 (B4), Stinger\_76 (B4), VioletZ\_80 (B4), Waleliano\_77 (B4), Zemanar\_78 (B4),

Start 9:

- Found in 7 of 32 ( 21.9% ) of genes in pham
- Manual Annotations of this start: 3 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: DigitDog\_82 (B5), Mysterious\_81 (B5), Nangang\_81 (B5), Phelemich\_77 (B5), Reprobate\_79 (B5), Serendipitous\_80 (B5), StinkyVeggy\_78 (B5),

**Summary by clusters:**

There are 2 clusters represented in this pham: B4, B5,

Info for manual annotations of cluster B4:

- Start number 8 was manually annotated 20 times for cluster B4.

Info for manual annotations of cluster B5:

- Start number 9 was manually annotated 3 times for cluster B5.

**Gene Information:**

Gene: Ahwei\_75 Start: 62467, Stop: 62321, Start Num: 8

Candidate Starts for Ahwei\_75:

(5, 62593), (7, 62506), (Start: 8 @62467 has 20 MA's), (12, 62377),

Gene: Apex\_79 Start: 63787, Stop: 63617, Start Num: 8

Candidate Starts for Apex\_79:

(5, 63913), (7, 63826), (Start: 8 @63787 has 20 MA's), (11, 63700), (12, 63697),

Gene: Austelle\_77 Start: 64080, Stop: 63934, Start Num: 8

Candidate Starts for Austelle\_77:

(5, 64206), (7, 64119), (Start: 8 @64080 has 20 MA's), (11, 63993), (12, 63990),

Gene: BobbyK\_78 Start: 63234, Stop: 63088, Start Num: 8

Candidate Starts for BobbyK\_78:

(5, 63360), (7, 63273), (Start: 8 @63234 has 20 MA's), (10, 63198), (11, 63147), (12, 63144),

Gene: BrownCNA\_79 Start: 63707, Stop: 63561, Start Num: 8

Candidate Starts for BrownCNA\_79:

(5, 63833), (7, 63746), (Start: 8 @63707 has 20 MA's), (11, 63620), (12, 63617),

Gene: ChrisnMich\_78 Start: 62529, Stop: 62383, Start Num: 8

Candidate Starts for ChrisnMich\_78:

(Start: 8 @62529 has 20 MA's), (11, 62442), (12, 62439),

Gene: Cooper\_79 Start: 63178, Stop: 63023, Start Num: 8

Candidate Starts for Cooper\_79:

(Start: 8 @63178 has 20 MA's), (11, 63091), (12, 63088),

Gene: DigitDog\_82 Start: 63428, Stop: 63282, Start Num: 9

Candidate Starts for DigitDog\_82:

(Start: 9 @63428 has 3 MA's), (12, 63350), (13, 63323),

Gene: Fortunato\_77 Start: 63299, Stop: 63153, Start Num: 8

Candidate Starts for Fortunato\_77:

(5, 63425), (7, 63338), (Start: 8 @63299 has 20 MA's), (11, 63212), (12, 63209),

Gene: Frederick\_78 Start: 63786, Stop: 63640, Start Num: 8

Candidate Starts for Frederick\_78:

(5, 63912), (7, 63825), (Start: 8 @63786 has 20 MA's), (11, 63699), (12, 63696),

Gene: Hangman\_79 Start: 63998, Stop: 63828, Start Num: 8

Candidate Starts for Hangman\_79:

(5, 64124), (7, 64037), (Start: 8 @63998 has 20 MA's), (11, 63911), (12, 63908),

Gene: Hydro\_79 Start: 63915, Stop: 63769, Start Num: 8

Candidate Starts for Hydro\_79:

(5, 64041), (7, 63954), (Start: 8 @63915 has 20 MA's), (11, 63828), (12, 63825),

Gene: JAMaL\_77 Start: 63163, Stop: 63017, Start Num: 8

Candidate Starts for JAMaL\_77:

(5, 63289), (7, 63202), (Start: 8 @63163 has 20 MA's), (11, 63076),

Gene: Lolalove\_80 Start: 63838, Stop: 63692, Start Num: 8

Candidate Starts for Lolalove\_80:

(5, 63964), (7, 63877), (Start: 8 @63838 has 20 MA's), (11, 63751), (12, 63748),

Gene: Magpie\_75 Start: 63267, Stop: 63121, Start Num: 8

Candidate Starts for Magpie\_75:

(5, 63393), (7, 63306), (Start: 8 @63267 has 20 MA's), (11, 63180), (12, 63177),

Gene: Mithril\_78 Start: 63654, Stop: 63508, Start Num: 8

Candidate Starts for Mithril\_78:

(7, 63693), (Start: 8 @63654 has 20 MA's), (11, 63567), (12, 63564),

Gene: Mudslide\_77 Start: 63620, Stop: 63450, Start Num: 8

Candidate Starts for Mudslide\_77:

(5, 63746), (7, 63659), (Start: 8 @63620 has 20 MA's), (11, 63533), (12, 63530),

Gene: Mysterious\_81 Start: 62937, Stop: 62791, Start Num: 9

Candidate Starts for Mysterious\_81:

(4, 63102), (6, 63015), (Start: 9 @62937 has 3 MA's), (12, 62856), (13, 62829),

Gene: Nanao\_77 Start: 62739, Stop: 62593, Start Num: 8

Candidate Starts for Nanao\_77:

(Start: 8 @62739 has 20 MA's), (11, 62652), (12, 62649),

Gene: Nangang\_81 Start: 63425, Stop: 63273, Start Num: 9

Candidate Starts for Nangang\_81:

(Start: 9 @63425 has 3 MA's), (12, 63344), (13, 63317),

Gene: Nigel\_74 Start: 62093, Stop: 61935, Start Num: 8

Candidate Starts for Nigel\_74:

(3, 62399), (Start: 8 @62093 has 20 MA's), (11, 62006), (12, 62003),

Gene: Phelemich\_77 Start: 62886, Stop: 62734, Start Num: 9

Candidate Starts for Phelemich\_77:

(1, 63354), (2, 63264), (4, 63054), (6, 62967), (Start: 9 @62886 has 3 MA's), (12, 62805), (13, 62778),

Gene: Poster\_76 Start: 62740, Stop: 62594, Start Num: 8

Candidate Starts for Poster\_76:

(Start: 8 @62740 has 20 MA's), (11, 62653), (12, 62650),

Gene: Prince\_77 Start: 63690, Stop: 63520, Start Num: 8

Candidate Starts for Prince\_77:

(5, 63816), (7, 63729), (Start: 8 @63690 has 20 MA's), (11, 63603), (12, 63600),

Gene: RawrgerThat\_78 Start: 63526, Stop: 63380, Start Num: 8

Candidate Starts for RawrgerThat\_78:

(5, 63652), (7, 63565), (Start: 8 @63526 has 20 MA's), (11, 63439), (12, 63436),

Gene: Reprobate\_79 Start: 62891, Stop: 62739, Start Num: 9

Candidate Starts for Reprobate\_79:

(1, 63359), (2, 63269), (4, 63059), (6, 62972), (Start: 9 @62891 has 3 MA's), (12, 62810), (13, 62783),

Gene: Serendipitous\_80 Start: 62788, Stop: 62639, Start Num: 9

Candidate Starts for Serendipitous\_80:

(4, 62953), (6, 62866), (Start: 9 @62788 has 3 MA's), (12, 62704), (13, 62677),

Gene: Stinger\_76 Start: 62217, Stop: 62068, Start Num: 8

Candidate Starts for Stinger\_76:

(Start: 8 @62217 has 20 MA's), (12, 62136),

Gene: StinkyVeggy\_78 Start: 62732, Stop: 62589, Start Num: 9

Candidate Starts for StinkyVeggy\_78:

(6, 62813), (Start: 9 @62732 has 3 MA's), (12, 62651), (13, 62624),

Gene: VioletZ\_80 Start: 63786, Stop: 63616, Start Num: 8

Candidate Starts for VioletZ\_80:

(5, 63912), (7, 63825), (Start: 8 @63786 has 20 MA's), (11, 63699), (12, 63696),

Gene: Waleliano\_77 Start: 63460, Stop: 63314, Start Num: 8

Candidate Starts for Waleliano\_77:

(5, 63586), (7, 63499), (Start: 8 @63460 has 20 MA's), (11, 63373), (12, 63370),

Gene: Zemanar\_78 Start: 63706, Stop: 63560, Start Num: 8

Candidate Starts for Zemanar\_78:

(5, 63832), (7, 63745), (Start: 8 @63706 has 20 MA's), (11, 63619), (12, 63616),