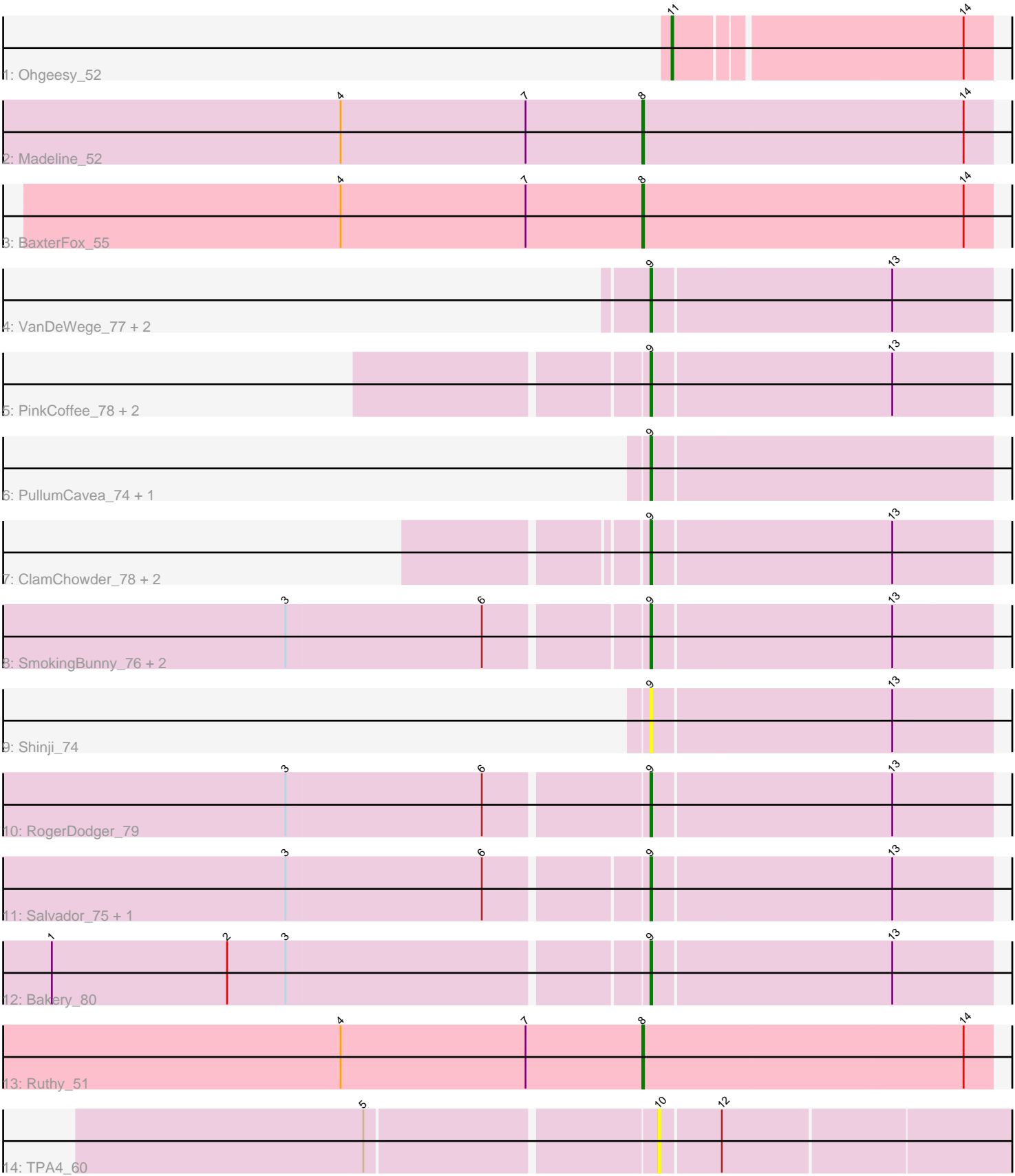


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 86487 Report

This analysis was run 04/05/24 on database version 557.

Pham number 86487 has 24 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Ohgeesy\_52
- Track 2 : Madeline\_52
- Track 3 : BaxterFox\_55
- Track 4 : VanDeWege\_77, Portcullis\_76, Arri\_76
- Track 5 : PinkCoffee\_78, Fireball\_78, Danyall\_77
- Track 6 : PullumCavea\_74, Phlop\_73
- Track 7 : ClamChowder\_78, Fugax\_79, Barb\_78
- Track 8 : SmokingBunny\_76, Togo\_75, Twister6\_76
- Track 9 : Shinji\_74
- Track 10 : RogerDodger\_79
- Track 11 : Salvador\_75, Evamon\_75
- Track 12 : Bakery\_80
- Track 13 : Ruthy\_51
- Track 14 : TPA4\_60

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

The start number called the most often in the published annotations is 9, it was called in 18 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Arri\_76, Bakery\_80, Barb\_78, ClamChowder\_78, Danyall\_77, Evamon\_75, Fireball\_78, Fugax\_79, Phlop\_73, PinkCoffee\_78, Portcullis\_76, PullumCavea\_74, RogerDodger\_79, Salvador\_75, Shinji\_74, SmokingBunny\_76, Togo\_75, Twister6\_76, VanDeWege\_77,

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

- 

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

- BaxterFox\_55, Madeline\_52, Ohgeesy\_52, Ruthy\_51, TPA4\_60,

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

Start 8:

- Found in 3 of 24 ( 12.5% ) of genes in pham
- Manual Annotations of this start: 3 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BaxterFox\_55 (CZ3), Madeline\_52 (CZ1), Ruthy\_51 (DW),

Start 9:

- Found in 19 of 24 ( 79.2% ) of genes in pham
- Manual Annotations of this start: 18 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Arri\_76 (DC1), Bakery\_80 (DC1), Barb\_78 (DC1), ClamChowder\_78 (DC1), Danyall\_77 (DC1), Evamon\_75 (DC1), Fireball\_78 (DC1), Fugax\_79 (DC1), Phlop\_73 (DC1), PinkCoffee\_78 (DC1), Portcullis\_76 (DC1), PullumCavea\_74 (DC1), RogerDodger\_79 (DC1), Salvador\_75 (DC1), Shinji\_74 (DC1), SmokingBunny\_76 (DC1), Togo\_75 (DC1), Twister6\_76 (DC1), VanDeWege\_77 (DC1),

Start 10:

- Found in 1 of 24 ( 4.2% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: TPA4\_60 (singleton),

Start 11:

- Found in 1 of 24 ( 4.2% ) of genes in pham
- Manual Annotations of this start: 1 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ohgeesy\_52 (CZ),

**Summary by clusters:**

There are 6 clusters represented in this pham: singleton, CZ3, CZ1, CZ, DW, DC1,

Info for manual annotations of cluster CZ:

- Start number 11 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ1:

- Start number 8 was manually annotated 1 time for cluster CZ1.

Info for manual annotations of cluster CZ3:

- Start number 8 was manually annotated 1 time for cluster CZ3.

Info for manual annotations of cluster DC1:

- Start number 9 was manually annotated 18 times for cluster DC1.

Info for manual annotations of cluster DW:

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

**Gene Information:**

Gene: Arri\_76 Start: 51272, Stop: 51475, Start Num: 9

Candidate Starts for Arri\_76:

(Start: 9 @51272 has 18 MA's), (13, 51416),

Gene: Bakery\_80 Start: 53540, Stop: 53743, Start Num: 9

Candidate Starts for Bakery\_80:

(1, 53183), (2, 53291), (3, 53327), (Start: 9 @53540 has 18 MA's), (13, 53684),

Gene: Barb\_78 Start: 51382, Stop: 51585, Start Num: 9

Candidate Starts for Barb\_78:

(Start: 9 @51382 has 18 MA's), (13, 51526),

Gene: BaxterFox\_55 Start: 40002, Stop: 40214, Start Num: 8

Candidate Starts for BaxterFox\_55:

(4, 39816), (7, 39930), (Start: 8 @40002 has 3 MA's), (14, 40197),

Gene: ClamChowder\_78 Start: 51382, Stop: 51585, Start Num: 9

Candidate Starts for ClamChowder\_78:

(Start: 9 @51382 has 18 MA's), (13, 51526),

Gene: Danyall\_77 Start: 51474, Stop: 51677, Start Num: 9

Candidate Starts for Danyall\_77:

(Start: 9 @51474 has 18 MA's), (13, 51618),

Gene: Evamon\_75 Start: 51007, Stop: 51210, Start Num: 9

Candidate Starts for Evamon\_75:

(3, 50794), (6, 50914), (Start: 9 @51007 has 18 MA's), (13, 51151),

Gene: Fireball\_78 Start: 51678, Stop: 51881, Start Num: 9

Candidate Starts for Fireball\_78:

(Start: 9 @51678 has 18 MA's), (13, 51822),

Gene: Fugax\_79 Start: 51374, Stop: 51577, Start Num: 9

Candidate Starts for Fugax\_79:

(Start: 9 @51374 has 18 MA's), (13, 51518),

Gene: Madeline\_52 Start: 39132, Stop: 39344, Start Num: 8

Candidate Starts for Madeline\_52:

(4, 38946), (7, 39060), (Start: 8 @39132 has 3 MA's), (14, 39327),

Gene: Ohgeesy\_52 Start: 38373, Stop: 38558, Start Num: 11

Candidate Starts for Ohgeesy\_52:

(Start: 11 @38373 has 1 MA's), (14, 38541),

Gene: Phlop\_73 Start: 50891, Stop: 51094, Start Num: 9

Candidate Starts for Phlop\_73:

(Start: 9 @50891 has 18 MA's),

Gene: PinkCoffee\_78 Start: 51515, Stop: 51718, Start Num: 9

Candidate Starts for PinkCoffee\_78:

(Start: 9 @51515 has 18 MA's), (13, 51659),

Gene: Portcullis\_76 Start: 50978, Stop: 51181, Start Num: 9

Candidate Starts for Portcullis\_76:  
(Start: 9 @50978 has 18 MA's), (13, 51122),

Gene: PullumCavea\_74 Start: 51068, Stop: 51271, Start Num: 9  
Candidate Starts for PullumCavea\_74:  
(Start: 9 @51068 has 18 MA's),

Gene: RogerDodger\_79 Start: 52166, Stop: 52369, Start Num: 9  
Candidate Starts for RogerDodger\_79:  
(3, 51950), (6, 52070), (Start: 9 @52166 has 18 MA's), (13, 52310),

Gene: Ruthy\_51 Start: 38798, Stop: 39010, Start Num: 8  
Candidate Starts for Ruthy\_51:  
(4, 38612), (7, 38726), (Start: 8 @38798 has 3 MA's), (14, 38993),

Gene: Salvador\_75 Start: 51005, Stop: 51208, Start Num: 9  
Candidate Starts for Salvador\_75:  
(3, 50792), (6, 50912), (Start: 9 @51005 has 18 MA's), (13, 51149),

Gene: Shinji\_74 Start: 50670, Stop: 50873, Start Num: 9  
Candidate Starts for Shinji\_74:  
(Start: 9 @50670 has 18 MA's), (13, 50814),

Gene: SmokingBunny\_76 Start: 52001, Stop: 52204, Start Num: 9  
Candidate Starts for SmokingBunny\_76:  
(3, 51788), (6, 51908), (Start: 9 @52001 has 18 MA's), (13, 52145),

Gene: TPA4\_60 Start: 42608, Stop: 42820, Start Num: 10  
Candidate Starts for TPA4\_60:  
(5, 42437), (10, 42608), (12, 42641),

Gene: Togo\_75 Start: 52001, Stop: 52204, Start Num: 9  
Candidate Starts for Togo\_75:  
(3, 51788), (6, 51908), (Start: 9 @52001 has 18 MA's), (13, 52145),

Gene: Twister6\_76 Start: 50350, Stop: 50553, Start Num: 9  
Candidate Starts for Twister6\_76:  
(3, 50137), (6, 50257), (Start: 9 @50350 has 18 MA's), (13, 50494),

Gene: VanDeWege\_77 Start: 51335, Stop: 51538, Start Num: 9  
Candidate Starts for VanDeWege\_77:  
(Start: 9 @51335 has 18 MA's), (13, 51479),