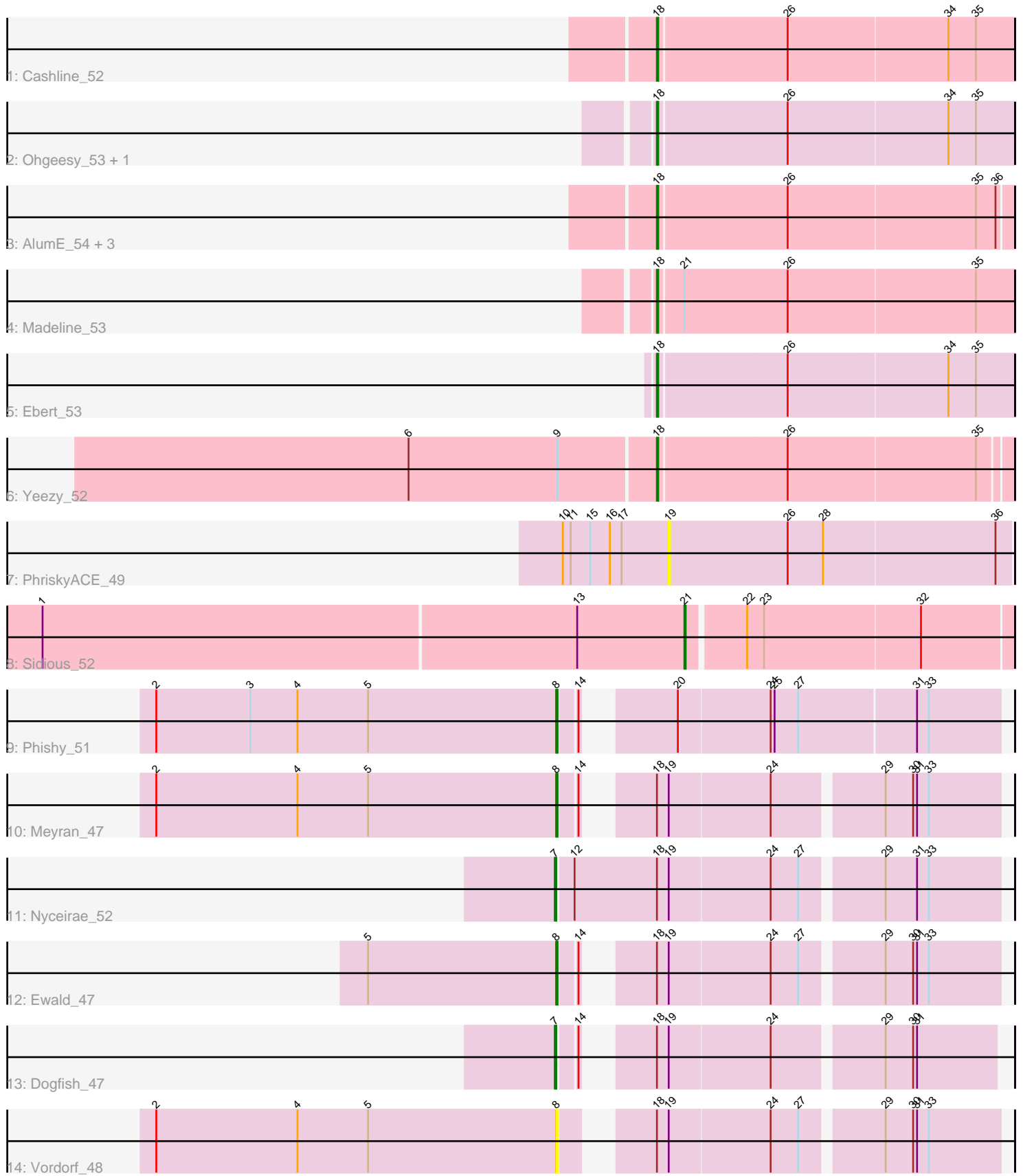


# Pham 86887



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 86887 Report

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

Pham number 86887 has 18 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Cashline\_52
- Track 2 : Ohgeesy\_53, BaxterFox\_56
- Track 3 : AlumE\_54, EMsquaredA\_52, Marteena\_51, BoyNamedSue\_54
- Track 4 : Madeline\_53
- Track 5 : Ebert\_53
- Track 6 : Yeezy\_52
- Track 7 : PhriskyACE\_49
- Track 8 : Sidious\_52
- Track 9 : Phishy\_51
- Track 10 : Meyran\_47
- Track 11 : Nyceirae\_52
- Track 12 : Ewald\_47
- Track 13 : Dogfish\_47
- Track 14 : Vordorf\_48

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

The start number called the most often in the published annotations is 18, it was called in 10 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AlumE\_54, BaxterFox\_56, BoyNamedSue\_54, Cashline\_52, EMsquaredA\_52, Ebert\_53, Madeline\_53, Marteena\_51, Ohgeesy\_53, Yeezy\_52,

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

- Dogfish\_47, Ewald\_47, Meyran\_47, Nyceirae\_52, Vordorf\_48,

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

- Phishy\_51, PhriskyACE\_49, Sidious\_52,

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

Start 7:

- Found in 2 of 18 ( 11.1% ) of genes in pham

- Manual Annotations of this start: 2 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dogfish\_47 (DT), Nyceirae\_52 (DT),

Start 8:

- Found in 4 of 18 ( 22.2% ) of genes in pham
- Manual Annotations of this start: 3 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ewald\_47 (DT), Meyran\_47 (DT), Phishy\_51 (DT), Vordorf\_48 (DT),

Start 18:

- Found in 15 of 18 ( 83.3% ) of genes in pham
- Manual Annotations of this start: 10 of 16
- Called 66.7% of time when present
- Phage (with cluster) where this start called: AlumE\_54 (CZ1), BaxterFox\_56 (CZ3), BoyNamedSue\_54 (CZ1), Cashline\_52 (CY), EMSquaredA\_52 (CY1), Ebert\_53 (CZ2), Madeline\_53 (CZ1), Marteen\_51 (CY1), Ohgeesy\_53 (CZ), Yeezy\_52 (CZ3),

Start 19:

- Found in 6 of 18 ( 33.3% ) of genes in pham
- No Manual Annotations of this start.
- Called 16.7% of time when present
- Phage (with cluster) where this start called: PhriskyACE\_49 (CZ4),

Start 21:

- Found in 2 of 18 ( 11.1% ) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Sidious\_52 (CZ7),

### **Summary by clusters:**

There are 9 clusters represented in this pham: CY1, CZ2, CZ3, CZ1, CZ7, CZ4, CZ, CY, DT,

Info for manual annotations of cluster CY:

- Start number 18 was manually annotated 1 time for cluster CY.

Info for manual annotations of cluster CY1:

- Start number 18 was manually annotated 2 times for cluster CY1.

Info for manual annotations of cluster CZ:

- Start number 18 was manually annotated 1 time for cluster CZ.

Info for manual annotations of cluster CZ1:

- Start number 18 was manually annotated 3 times for cluster CZ1.

Info for manual annotations of cluster CZ2:

- Start number 18 was manually annotated 1 time for cluster CZ2.

Info for manual annotations of cluster CZ3:

- Start number 18 was manually annotated 2 times for cluster CZ3.

Info for manual annotations of cluster CZ7:

- Start number 21 was manually annotated 1 time for cluster CZ7.

Info for manual annotations of cluster DT:

- Start number 7 was manually annotated 2 times for cluster DT.
- Start number 8 was manually annotated 3 times for cluster DT.

### ***Gene Information:***

Gene: AlumE\_54 Start: 38936, Stop: 39199, Start Num: 18

Candidate Starts for AlumE\_54:

(Start: 18 @38936 has 10 MA's), (26, 39032), (35, 39173), (36, 39188),

Gene: BaxterFox\_56 Start: 40211, Stop: 40477, Start Num: 18

Candidate Starts for BaxterFox\_56:

(Start: 18 @40211 has 10 MA's), (26, 40307), (34, 40427), (35, 40448),

Gene: BoyNamedSue\_54 Start: 38936, Stop: 39199, Start Num: 18

Candidate Starts for BoyNamedSue\_54:

(Start: 18 @38936 has 10 MA's), (26, 39032), (35, 39173), (36, 39188),

Gene: Cashline\_52 Start: 39451, Stop: 39717, Start Num: 18

Candidate Starts for Cashline\_52:

(Start: 18 @39451 has 10 MA's), (26, 39547), (34, 39667), (35, 39688),

Gene: Dogfish\_47 Start: 36184, Stop: 36474, Start Num: 7

Candidate Starts for Dogfish\_47:

(Start: 7 @36184 has 2 MA's), (14, 36196), (Start: 18 @36229 has 10 MA's), (19, 36238), (24, 36313), (29, 36391), (30, 36412), (31, 36415),

Gene: EMSquaredA\_52 Start: 38111, Stop: 38374, Start Num: 18

Candidate Starts for EMSquaredA\_52:

(Start: 18 @38111 has 10 MA's), (26, 38207), (35, 38348), (36, 38363),

Gene: Ebert\_53 Start: 34308, Stop: 34574, Start Num: 18

Candidate Starts for Ebert\_53:

(Start: 18 @34308 has 10 MA's), (26, 34404), (34, 34524), (35, 34545),

Gene: Ewald\_47 Start: 35997, Stop: 36290, Start Num: 8

Candidate Starts for Ewald\_47:

(5, 35853), (Start: 8 @35997 has 3 MA's), (14, 36009), (Start: 18 @36042 has 10 MA's), (19, 36051), (24, 36126), (27, 36147), (29, 36204), (30, 36225), (31, 36228), (33, 36237),

Gene: Madeline\_53 Start: 39341, Stop: 39607, Start Num: 18

Candidate Starts for Madeline\_53:

(Start: 18 @39341 has 10 MA's), (Start: 21 @39359 has 1 MA's), (26, 39437), (35, 39578),

Gene: Marteena\_51 Start: 38111, Stop: 38374, Start Num: 18

Candidate Starts for Marteena\_51:

(Start: 18 @38111 has 10 MA's), (26, 38207), (35, 38348), (36, 38363),

Gene: Meyran\_47 Start: 37101, Stop: 37394, Start Num: 8

Candidate Starts for Meyran\_47:

(2, 36795), (4, 36903), (5, 36957), (Start: 8 @37101 has 3 MA's), (14, 37113), (Start: 18 @37146 has 10 MA's), (19, 37155), (24, 37230), (29, 37308), (30, 37329), (31, 37332), (33, 37341),

Gene: Nyceirae\_52 Start: 37093, Stop: 37416, Start Num: 7

Candidate Starts for Nyceirae\_52:

(Start: 7 @37093 has 2 MA's), (12, 37105), (Start: 18 @37168 has 10 MA's), (19, 37177), (24, 37252), (27, 37273), (29, 37330), (31, 37354), (33, 37363),

Gene: Ohgeesy\_53 Start: 38555, Stop: 38821, Start Num: 18

Candidate Starts for Ohgeesy\_53:

(Start: 18 @38555 has 10 MA's), (26, 38651), (34, 38771), (35, 38792),

Gene: Phishy\_51 Start: 38068, Stop: 38367, Start Num: 8

Candidate Starts for Phishy\_51:

(2, 37762), (3, 37834), (4, 37870), (5, 37924), (Start: 8 @38068 has 3 MA's), (14, 38080), (20, 38128), (24, 38197), (25, 38200), (27, 38218), (31, 38305), (33, 38314),

Gene: PhriskyACE\_49 Start: 35923, Stop: 36180, Start Num: 19

Candidate Starts for PhriskyACE\_49:

(10, 35842), (11, 35848), (15, 35863), (16, 35878), (17, 35887), (19, 35923), (26, 36013), (28, 36040), (36, 36169),

Gene: Sidious\_52 Start: 38248, Stop: 38487, Start Num: 21

Candidate Starts for Sidious\_52:

(1, 37762), (13, 38167), (Start: 21 @38248 has 1 MA's), (22, 38290), (23, 38302), (32, 38419),

Gene: Vordorf\_48 Start: 36361, Stop: 36657, Start Num: 8

Candidate Starts for Vordorf\_48:

(2, 36055), (4, 36163), (5, 36217), (Start: 8 @36361 has 3 MA's), (Start: 18 @36409 has 10 MA's), (19, 36418), (24, 36493), (27, 36514), (29, 36571), (30, 36592), (31, 36595), (33, 36604),

Gene: Yeezy\_52 Start: 37111, Stop: 37371, Start Num: 18

Candidate Starts for Yeezy\_52:

(6, 36925), (9, 37039), (Start: 18 @37111 has 10 MA's), (26, 37207), (35, 37348),