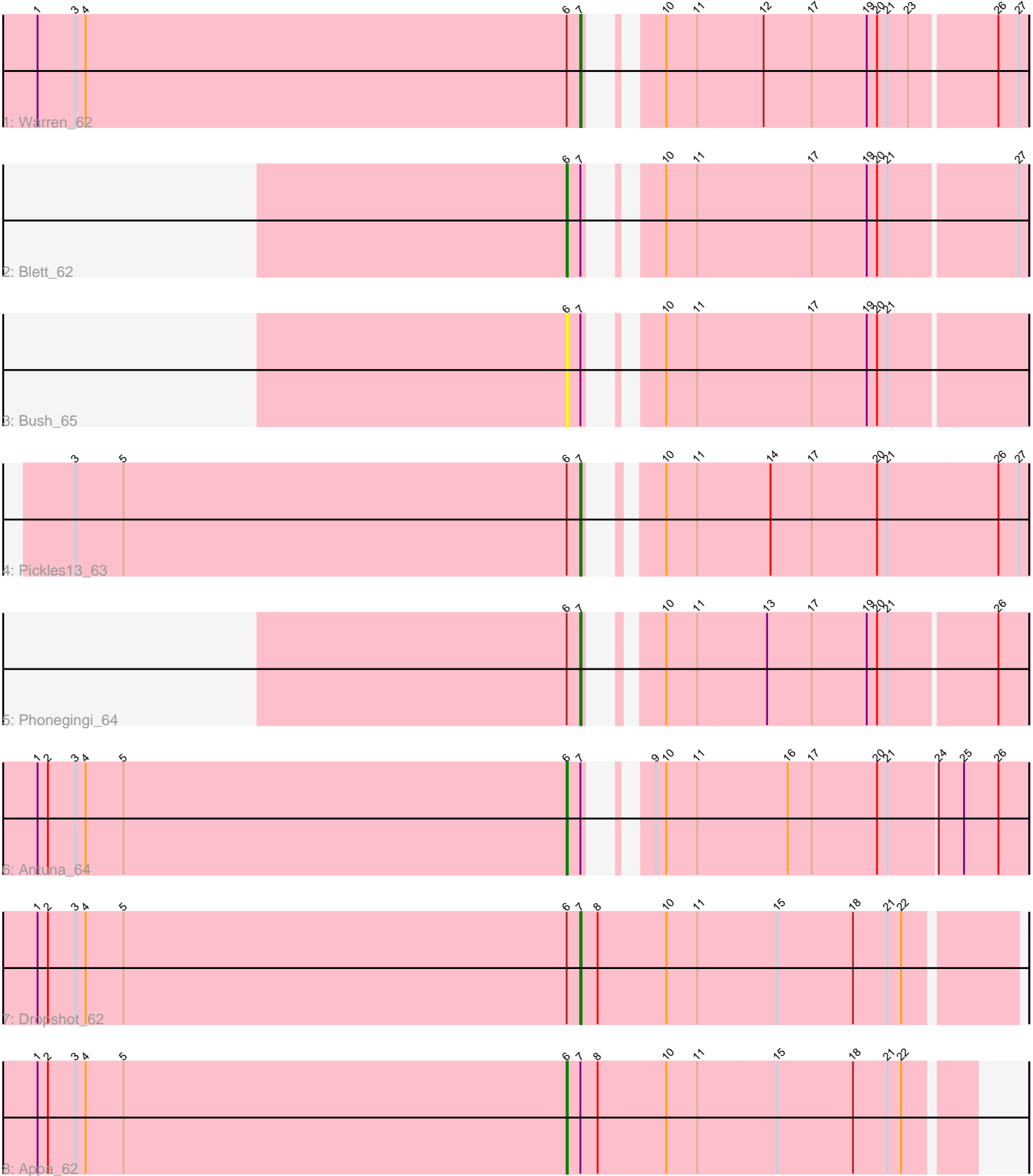


Pham 87999



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 87999 Report

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

Pham number 87999 has 8 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Warren\_62
- Track 2 : Blett\_62
- Track 3 : Bush\_65
- Track 4 : Pickles13\_63
- Track 5 : Phonegingi\_64
- Track 6 : Antuna\_64
- Track 7 : Dropshot\_62
- Track 8 : Appa\_62

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

The start number called the most often in the published annotations is 7, it was called in 4 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Dropshot\_62, Phonegingi\_64, Pickles13\_63, Warren\_62,

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

- Antuna\_64, Appa\_62, Blett\_62, Bush\_65,

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

- 

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

Start 6:

- Found in 8 of 8 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 3 of 7
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Antuna\_64 (GA), Appa\_62 (GA), Blett\_62 (GA), Bush\_65 (GA),

Start 7:

- Found in 8 of 8 ( 100.0% ) of genes in pham

- Manual Annotations of this start: 4 of 7
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Dropshot\_62 (GA), Phonegingi\_64 (GA), Pickles13\_63 (GA), Warren\_62 (GA),

### Summary by clusters:

There is one cluster represented in this pham: GA

Info for manual annotations of cluster GA:

- Start number 6 was manually annotated 3 times for cluster GA.
- Start number 7 was manually annotated 4 times for cluster GA.

### Gene Information:

Gene: Antuna\_64 Start: 37143, Stop: 37496, Start Num: 6

Candidate Starts for Antuna\_64:

(1, 36681), (2, 36690), (3, 36714), (4, 36723), (5, 36756), (Start: 6 @37143 has 3 MA's), (Start: 7 @37155 has 4 MA's), (9, 37176), (10, 37185), (11, 37212), (16, 37290), (17, 37311), (20, 37368), (21, 37377), (24, 37419), (25, 37440), (26, 37470),

Gene: Appa\_62 Start: 36899, Stop: 37246, Start Num: 6

Candidate Starts for Appa\_62:

(1, 36437), (2, 36446), (3, 36470), (4, 36479), (5, 36512), (Start: 6 @36899 has 3 MA's), (Start: 7 @36911 has 4 MA's), (8, 36926), (10, 36986), (11, 37013), (15, 37082), (18, 37148), (21, 37178), (22, 37190),

Gene: Blett\_62 Start: 37096, Stop: 37446, Start Num: 6

Candidate Starts for Blett\_62:

(Start: 6 @37096 has 3 MA's), (Start: 7 @37108 has 4 MA's), (10, 37138), (11, 37165), (17, 37264), (19, 37312), (20, 37321), (21, 37330), (27, 37438),

Gene: Bush\_65 Start: 37036, Stop: 37386, Start Num: 6

Candidate Starts for Bush\_65:

(Start: 6 @37036 has 3 MA's), (Start: 7 @37048 has 4 MA's), (10, 37078), (11, 37105), (17, 37204), (19, 37252), (20, 37261), (21, 37270),

Gene: Dropshot\_62 Start: 36749, Stop: 37120, Start Num: 7

Candidate Starts for Dropshot\_62:

(1, 36275), (2, 36284), (3, 36308), (4, 36317), (5, 36350), (Start: 6 @36737 has 3 MA's), (Start: 7 @36749 has 4 MA's), (8, 36764), (10, 36824), (11, 36851), (15, 36920), (18, 36986), (21, 37016), (22, 37028),

Gene: Phonegingi\_64 Start: 37662, Stop: 38003, Start Num: 7

Candidate Starts for Phonegingi\_64:

(Start: 6 @37650 has 3 MA's), (Start: 7 @37662 has 4 MA's), (10, 37695), (11, 37722), (13, 37782), (17, 37821), (19, 37869), (20, 37878), (21, 37887), (26, 37977),

Gene: Pickles13\_63 Start: 37877, Stop: 38224, Start Num: 7

Candidate Starts for Pickles13\_63:

(3, 37436), (5, 37478), (Start: 6 @37865 has 3 MA's), (Start: 7 @37877 has 4 MA's), (10, 37910), (11, 37937), (14, 38000), (17, 38036), (20, 38093), (21, 38102), (26, 38198), (27, 38216),

Gene: Warren\_62 Start: 36974, Stop: 37312, Start Num: 7

Candidate Starts for Warren\_62:

(1, 36500), (3, 36533), (4, 36542), (Start: 6 @36962 has 3 MA's), (Start: 7 @36974 has 4 MA's), (10, 37004), (11, 37031), (12, 37088), (17, 37130), (19, 37178), (20, 37187), (21, 37196), (23, 37214), (26, 37286), (27, 37304),