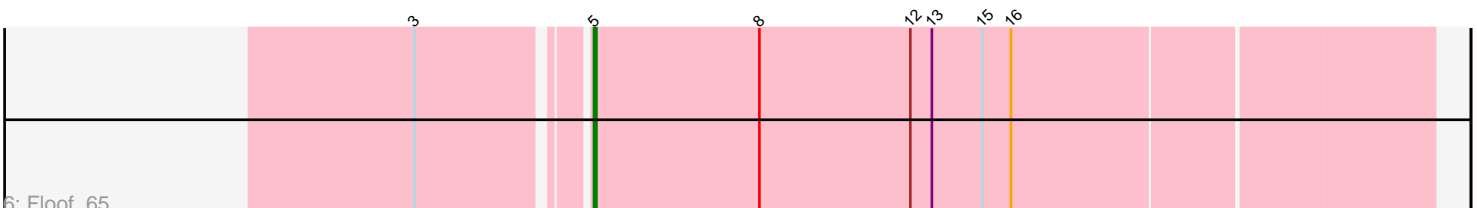
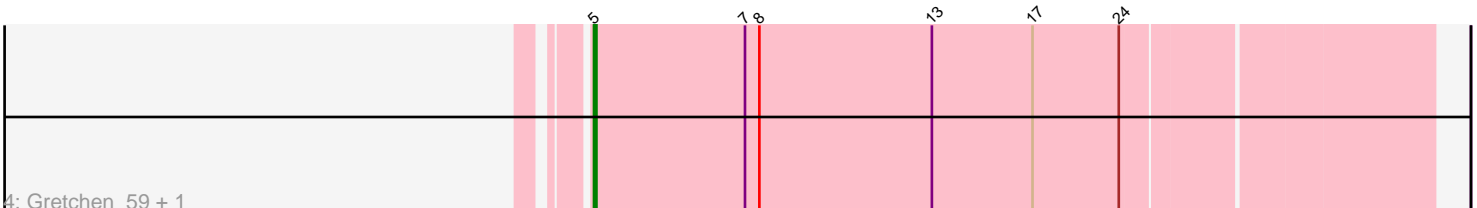
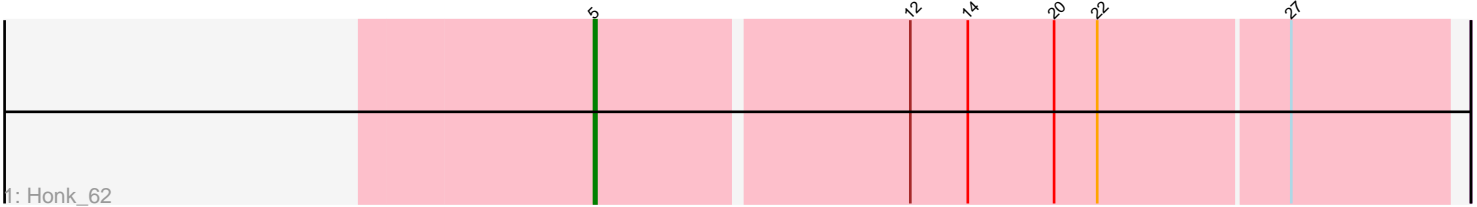


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 33705 Report

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

Pham number 33705 has 10 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Honk\_62
- Track 2 : Barnstormer\_61, UtzChips\_61
- Track 3 : Caron\_64
- Track 4 : Gretchen\_59, Percival\_60
- Track 5 : Mabodamaca\_62
- Track 6 : Floof\_65
- Track 7 : GardenState\_60, IAmGroot\_59

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

The start number called the most often in the published annotations is 5, it was called in 7 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Barnstormer\_61, Caron\_64, Floof\_65, Gretchen\_59, Honk\_62, Percival\_60, UtzChips\_61,

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

- Mabodamaca\_62,

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

- GardenState\_60, IAmGroot\_59,

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

Start 4:

- Found in 2 of 10 ( 20.0% ) of genes in pham
- Manual Annotations of this start: 2 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GardenState\_60 (EH), IAmGroot\_59 (EH),

Start 5:

- Found in 8 of 10 ( 80.0% ) of genes in pham

- Manual Annotations of this start: 7 of 10
- Called 87.5% of time when present
- Phage (with cluster) where this start called: Barnstormer\_61 (EH), Caron\_64 (EH), Floof\_65 (EH), Gretchen\_59 (EH), Honk\_62 (EH), Percival\_60 (EH), UtzChips\_61 (EH),

Start 6:

- Found in 1 of 10 ( 10.0% ) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Mabodamaca\_62 (EH),

### **Summary by clusters:**

There is one cluster represented in this pham: EH

Info for manual annotations of cluster EH:

- Start number 4 was manually annotated 2 times for cluster EH.
- Start number 5 was manually annotated 7 times for cluster EH.
- Start number 6 was manually annotated 1 time for cluster EH.

### **Gene Information:**

Gene: Barnstormer\_61 Start: 40351, Stop: 40692, Start Num: 5

Candidate Starts for Barnstormer\_61:

(Start: 5 @40351 has 7 MA's), (12, 40483), (15, 40513), (16, 40525), (18, 40537), (23, 40564),

Gene: Caron\_64 Start: 40865, Stop: 41200, Start Num: 5

Candidate Starts for Caron\_64:

(2, 40772), (Start: 5 @40865 has 7 MA's), (15, 41027), (21, 41063), (29, 41192),

Gene: Floof\_65 Start: 41571, Stop: 41912, Start Num: 5

Candidate Starts for Floof\_65:

(3, 41508), (Start: 5 @41571 has 7 MA's), (8, 41640), (12, 41703), (13, 41712), (15, 41733), (16, 41745),

Gene: GardenState\_60 Start: 39480, Stop: 39812, Start Num: 4

Candidate Starts for GardenState\_60:

(1, 39267), (Start: 4 @39480 has 2 MA's), (10, 39582), (19, 39672), (26, 39756),

Gene: Gretchen\_59 Start: 40788, Stop: 41129, Start Num: 5

Candidate Starts for Gretchen\_59:

(Start: 5 @40788 has 7 MA's), (7, 40851), (8, 40857), (13, 40929), (17, 40971), (24, 41007),

Gene: Honk\_62 Start: 40045, Stop: 40392, Start Num: 5

Candidate Starts for Honk\_62:

(Start: 5 @40045 has 7 MA's), (12, 40171), (14, 40195), (20, 40231), (22, 40249), (27, 40327),

Gene: IAmGroot\_59 Start: 39685, Stop: 40017, Start Num: 4

Candidate Starts for IAmGroot\_59:

(1, 39472), (Start: 4 @39685 has 2 MA's), (10, 39787), (19, 39877), (26, 39961),

Gene: Mabodamaca\_62 Start: 42590, Stop: 42937, Start Num: 6

Candidate Starts for Mabodamaca\_62:

(Start: 5 @42575 has 7 MA's), (Start: 6 @42590 has 1 MA's), (9, 42659), (11, 42686), (12, 42707), (16, 42749), (25, 42845), (28, 42878),

Gene: Percival\_60 Start: 40688, Stop: 41029, Start Num: 5

Candidate Starts for Percival\_60:

(Start: 5 @40688 has 7 MA's), (7, 40751), (8, 40757), (13, 40829), (17, 40871), (24, 40907),

Gene: UtzChips\_61 Start: 40336, Stop: 40677, Start Num: 5

Candidate Starts for UtzChips\_61:

(Start: 5 @40336 has 7 MA's), (12, 40468), (15, 40498), (16, 40510), (18, 40522), (23, 40549),