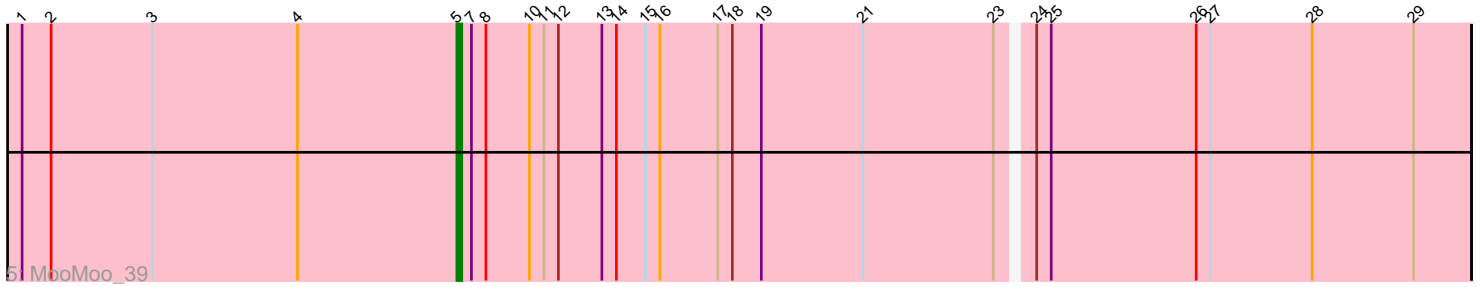
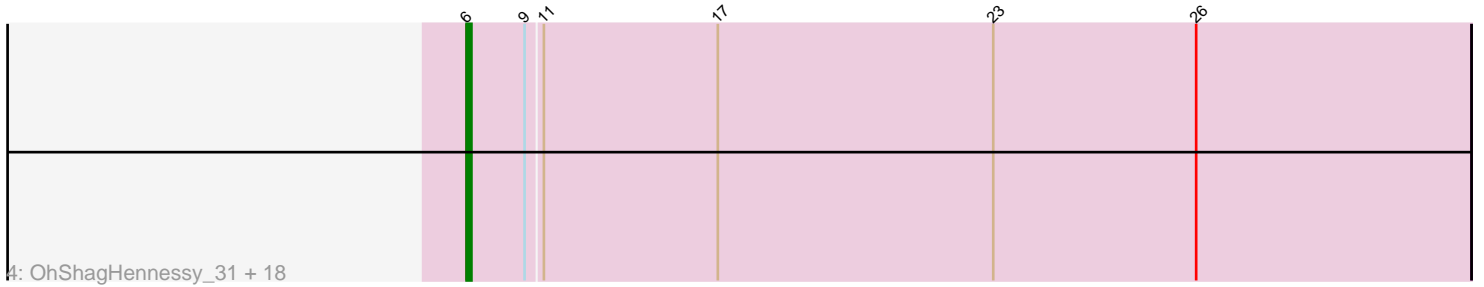
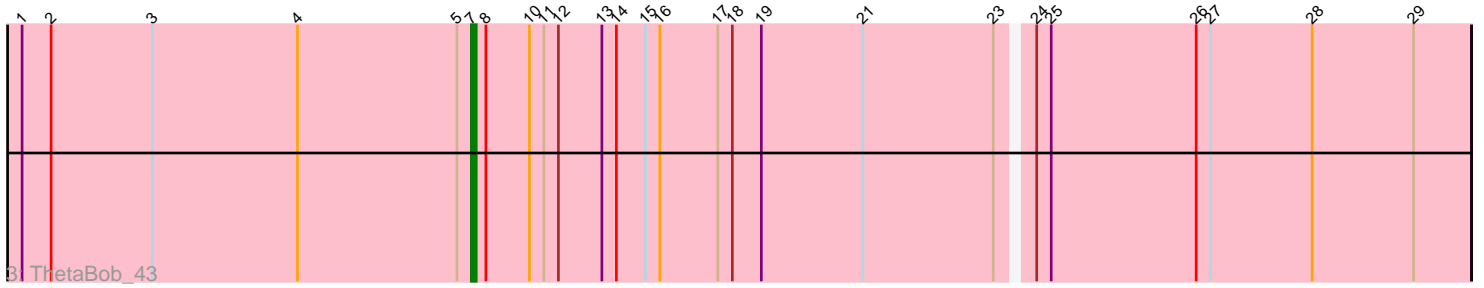
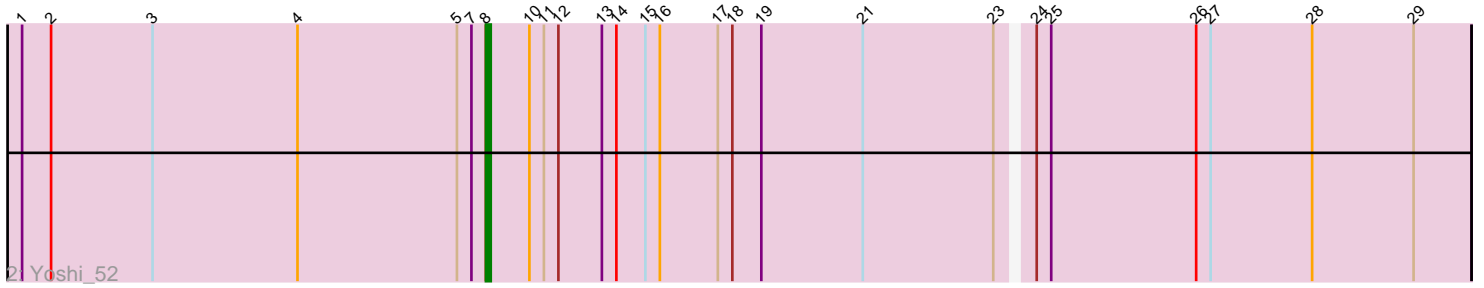
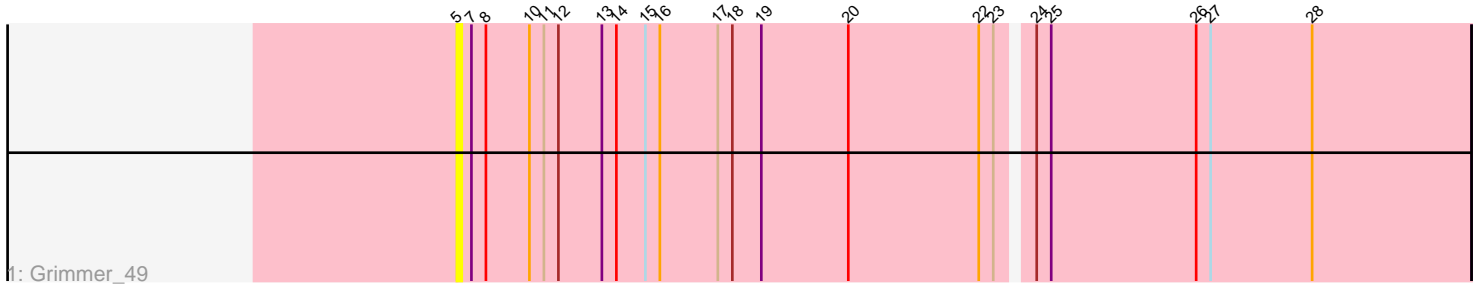


# Pham 295049



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 295049 Report

This analysis was run 04/18/26 on database version 643.

Pham number 295049 has 23 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Grimmer\_49
- Track 2 : Yoshi\_52
- Track 3 : ThetaBob\_43
- Track 4 : OhShagHennessy\_31, Rose5\_31, Wamburgrxpress\_31, Enceladus\_31, Calm\_31, Halena\_31, Acquire49\_31, MAckerman\_31, JoeDirt\_31, Silverleaf\_31, Appletree2\_31, Tyson\_31, UPIE\_31, LeBron\_31, Wyatt2\_31, Poochiewood\_31, CicholasNage\_31, Zaria\_31, AvadaKedavra\_31
- Track 5 : MooMoo\_39

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

The start number called the most often in the published annotations is 6, it was called in 18 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Acquire49\_31, Appletree2\_31, AvadaKedavra\_31, Calm\_31, CicholasNage\_31, Enceladus\_31, Halena\_31, JoeDirt\_31, LeBron\_31, MAckerman\_31, OhShagHennessy\_31, Poochiewood\_31, Rose5\_31, Silverleaf\_31, Tyson\_31, UPIE\_31, Wamburgrxpress\_31, Wyatt2\_31, Zaria\_31,

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

- 

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

- Grimmer\_49, MooMoo\_39, ThetaBob\_43, Yoshi\_52,

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

Start 5:

- Found in 4 of 23 ( 17.4% ) of genes in pham
- Manual Annotations of this start: 1 of 21
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Grimmer\_49 (F1), MooMoo\_39 (singleton),

Start 6:

- Found in 19 of 23 ( 82.6% ) of genes in pham
- Manual Annotations of this start: 18 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Acquire49\_31 (L1), Appletree2\_31 (L1), AvadaKedavra\_31 (L1), Calm\_31 (L1), CicholasNage\_31 (L1), Enceladus\_31 (L1), Halena\_31 (L1), JoeDirt\_31 (L1), LeBron\_31 (L1), MAckerman\_31 (L1), OhShagHennessy\_31 (L1), Poochiewood\_31 (L1), Rose5\_31 (L1), Silverleaf\_31 (L1), Tyson\_31 (L1), UPIE\_31 (L1), Wamburgxpress\_31 (L1), Wyatt2\_31 (L1), Zaria\_31 (L1),

Start 7:

- Found in 4 of 23 ( 17.4% ) of genes in pham
- Manual Annotations of this start: 1 of 21
- Called 25.0% of time when present
- Phage (with cluster) where this start called: ThetaBob\_43 (F4),

Start 8:

- Found in 4 of 23 ( 17.4% ) of genes in pham
- Manual Annotations of this start: 1 of 21
- Called 25.0% of time when present
- Phage (with cluster) where this start called: Yoshi\_52 (F2),

**Summary by clusters:**

There are 5 clusters represented in this pham: F1, F2, F4, singleton, L1,

Info for manual annotations of cluster F2:

- Start number 8 was manually annotated 1 time for cluster F2.

Info for manual annotations of cluster F4:

- Start number 7 was manually annotated 1 time for cluster F4.

Info for manual annotations of cluster L1:

- Start number 6 was manually annotated 18 times for cluster L1.

**Gene Information:**

Gene: Acquire49\_31 Start: 28234, Stop: 28028, Start Num: 6

Candidate Starts for Acquire49\_31:

(Start: 6 @28234 has 18 MA's), (9, 28222), (11, 28219), (17, 28183), (23, 28126), (26, 28084),

Gene: Appletree2\_31 Start: 28177, Stop: 27971, Start Num: 6

Candidate Starts for Appletree2\_31:

(Start: 6 @28177 has 18 MA's), (9, 28165), (11, 28162), (17, 28126), (23, 28069), (26, 28027),

Gene: AvadaKedavra\_31 Start: 28244, Stop: 28038, Start Num: 6

Candidate Starts for AvadaKedavra\_31:

(Start: 6 @28244 has 18 MA's), (9, 28232), (11, 28229), (17, 28193), (23, 28136), (26, 28094),

Gene: Calm\_31 Start: 28249, Stop: 28043, Start Num: 6

Candidate Starts for Calm\_31:

(Start: 6 @28249 has 18 MA's), (9, 28237), (11, 28234), (17, 28198), (23, 28141), (26, 28099),

Gene: CicholasNage\_31 Start: 28236, Stop: 28030, Start Num: 6

Candidate Starts for CicholasNage\_31:

(Start: 6 @28236 has 18 MA's), (9, 28224), (11, 28221), (17, 28185), (23, 28128), (26, 28086),

Gene: Enceladus\_31 Start: 28218, Stop: 28012, Start Num: 6

Candidate Starts for Enceladus\_31:

(Start: 6 @28218 has 18 MA's), (9, 28206), (11, 28203), (17, 28167), (23, 28110), (26, 28068),

Gene: Grimmer\_49 Start: 33187, Stop: 32981, Start Num: 5

Candidate Starts for Grimmer\_49:

(Start: 5 @33187 has 1 MA's), (Start: 7 @33184 has 1 MA's), (Start: 8 @33181 has 1 MA's), (10, 33172), (11, 33169), (12, 33166), (13, 33157), (14, 33154), (15, 33148), (16, 33145), (17, 33133), (18, 33130), (19, 33124), (20, 33106), (22, 33079), (23, 33076), (24, 33070), (25, 33067), (26, 33037), (27, 33034), (28, 33013),

Gene: Halena\_31 Start: 28245, Stop: 28039, Start Num: 6

Candidate Starts for Halena\_31:

(Start: 6 @28245 has 18 MA's), (9, 28233), (11, 28230), (17, 28194), (23, 28137), (26, 28095),

Gene: JoeDirt\_31 Start: 28216, Stop: 28010, Start Num: 6

Candidate Starts for JoeDirt\_31:

(Start: 6 @28216 has 18 MA's), (9, 28204), (11, 28201), (17, 28165), (23, 28108), (26, 28066),

Gene: LeBron\_31 Start: 28260, Stop: 28054, Start Num: 6

Candidate Starts for LeBron\_31:

(Start: 6 @28260 has 18 MA's), (9, 28248), (11, 28245), (17, 28209), (23, 28152), (26, 28110),

Gene: MAckerman\_31 Start: 28234, Stop: 28028, Start Num: 6

Candidate Starts for MAckerman\_31:

(Start: 6 @28234 has 18 MA's), (9, 28222), (11, 28219), (17, 28183), (23, 28126), (26, 28084),

Gene: MooMoo\_39 Start: 31044, Stop: 30838, Start Num: 5

Candidate Starts for MooMoo\_39:

(1, 31134), (2, 31128), (3, 31107), (4, 31077), (Start: 5 @31044 has 1 MA's), (Start: 7 @31041 has 1 MA's), (Start: 8 @31038 has 1 MA's), (10, 31029), (11, 31026), (12, 31023), (13, 31014), (14, 31011), (15, 31005), (16, 31002), (17, 30990), (18, 30987), (19, 30981), (21, 30960), (23, 30933), (24, 30927), (25, 30924), (26, 30894), (27, 30891), (28, 30870), (29, 30849),

Gene: OhShagHennessy\_31 Start: 28199, Stop: 27993, Start Num: 6

Candidate Starts for OhShagHennessy\_31:

(Start: 6 @28199 has 18 MA's), (9, 28187), (11, 28184), (17, 28148), (23, 28091), (26, 28049),

Gene: Pochiewood\_31 Start: 28235, Stop: 28029, Start Num: 6

Candidate Starts for Pochiewood\_31:

(Start: 6 @28235 has 18 MA's), (9, 28223), (11, 28220), (17, 28184), (23, 28127), (26, 28085),

Gene: Rose5\_31 Start: 28234, Stop: 28028, Start Num: 6

Candidate Starts for Rose5\_31:

(Start: 6 @28234 has 18 MA's), (9, 28222), (11, 28219), (17, 28183), (23, 28126), (26, 28084),

Gene: Silverleaf\_31 Start: 28234, Stop: 28028, Start Num: 6

Candidate Starts for Silverleaf\_31:

(Start: 6 @28234 has 18 MA's), (9, 28222), (11, 28219), (17, 28183), (23, 28126), (26, 28084),

Gene: ThetaBob\_43 Start: 31404, Stop: 31201, Start Num: 7

Candidate Starts for ThetaBob\_43:

(1, 31497), (2, 31491), (3, 31470), (4, 31440), (Start: 5 @31407 has 1 MA's), (Start: 7 @31404 has 1 MA's), (Start: 8 @31401 has 1 MA's), (10, 31392), (11, 31389), (12, 31386), (13, 31377), (14, 31374), (15, 31368), (16, 31365), (17, 31353), (18, 31350), (19, 31344), (21, 31323), (23, 31296), (24, 31290), (25, 31287), (26, 31257), (27, 31254), (28, 31233), (29, 31212),

Gene: Tyson\_31 Start: 28234, Stop: 28028, Start Num: 6

Candidate Starts for Tyson\_31:

(Start: 6 @28234 has 18 MA's), (9, 28222), (11, 28219), (17, 28183), (23, 28126), (26, 28084),

Gene: UPIE\_31 Start: 28232, Stop: 28026, Start Num: 6

Candidate Starts for UPIE\_31:

(Start: 6 @28232 has 18 MA's), (9, 28220), (11, 28217), (17, 28181), (23, 28124), (26, 28082),

Gene: Wamburgxpress\_31 Start: 28247, Stop: 28041, Start Num: 6

Candidate Starts for Wamburgxpress\_31:

(Start: 6 @28247 has 18 MA's), (9, 28235), (11, 28232), (17, 28196), (23, 28139), (26, 28097),

Gene: Wyatt2\_31 Start: 28234, Stop: 28028, Start Num: 6

Candidate Starts for Wyatt2\_31:

(Start: 6 @28234 has 18 MA's), (9, 28222), (11, 28219), (17, 28183), (23, 28126), (26, 28084),

Gene: Yoshi\_52 Start: 32293, Stop: 32093, Start Num: 8

Candidate Starts for Yoshi\_52:

(1, 32389), (2, 32383), (3, 32362), (4, 32332), (Start: 5 @32299 has 1 MA's), (Start: 7 @32296 has 1 MA's), (Start: 8 @32293 has 1 MA's), (10, 32284), (11, 32281), (12, 32278), (13, 32269), (14, 32266), (15, 32260), (16, 32257), (17, 32245), (18, 32242), (19, 32236), (21, 32215), (23, 32188), (24, 32182), (25, 32179), (26, 32149), (27, 32146), (28, 32125), (29, 32104),

Gene: Zaria\_31 Start: 28249, Stop: 28043, Start Num: 6

Candidate Starts for Zaria\_31:

(Start: 6 @28249 has 18 MA's), (9, 28237), (11, 28234), (17, 28198), (23, 28141), (26, 28099),