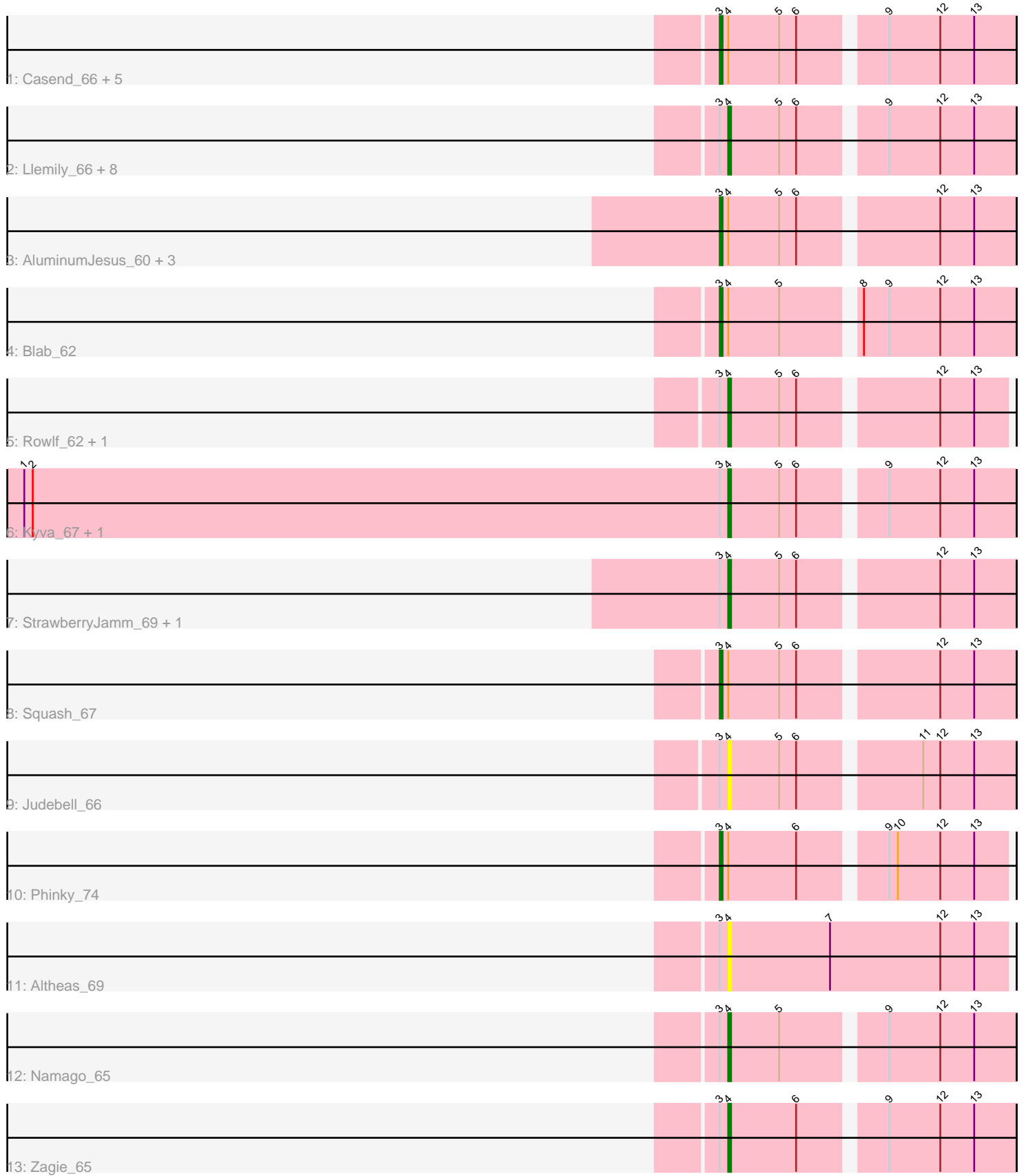


# Pham 3311



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 3311 Report

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

Pham number 3311 has 32 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Casend\_66, Teehee\_66, Jehoshaphat\_67, Rudy\_63, Phabia\_65, Wayne3\_67
- Track 2 : Llemily\_66, Zhafia\_69, Sillytadpoles\_67, Tissue\_65, DonaldDuck\_66, Quammi\_63, Viceroy\_64, Wheelie\_65, Lonelysoil\_62
- Track 3 : AluminumJesus\_60, Hyperion\_64, Mashley\_64, SallyK\_66
- Track 4 : Blab\_62
- Track 5 : Rowlf\_62, BabyDotz\_64
- Track 6 : Kyva\_67, Grassboy\_67
- Track 7 : StrawberryJamm\_69, Gazebo\_63
- Track 8 : Squash\_67
- Track 9 : Judebell\_66
- Track 10 : Phinky\_74
- Track 11 : Altheas\_69
- Track 12 : Namago\_65
- Track 13 : Zagie\_65

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

The start number called the most often in the published annotations is 3, it was called in 13 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AluminumJesus\_60, Blab\_62, Casend\_66, Hyperion\_64, Jehoshaphat\_67, Mashley\_64, Phabia\_65, Phinky\_74, Rudy\_63, SallyK\_66, Squash\_67, Teehee\_66, Wayne3\_67,

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

- Altheas\_69, BabyDotz\_64, DonaldDuck\_66, Gazebo\_63, Grassboy\_67, Judebell\_66, Kyva\_67, Llemily\_66, Lonelysoil\_62, Namago\_65, Quammi\_63, Rowlf\_62, Sillytadpoles\_67, StrawberryJamm\_69, Tissue\_65, Viceroy\_64, Wheelie\_65, Zagie\_65, Zhafia\_69,

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

-

## Summary by start number:

### Start 3:

- Found in 32 of 32 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 13 of 23
- Called 40.6% of time when present
- Phage (with cluster) where this start called: AluminumJesus\_60 (EG), Blab\_62 (EG), Casend\_66 (EG), Hyperion\_64 (EG), Jehoshaphat\_67 (EG), Mashley\_64 (EG), Phabia\_65 (EG), Phinky\_74 (EG), Rudy\_63 (EG), SallyK\_66 (EG), Squash\_67 (EG), Teehee\_66 (EG), Wayne3\_67 (EG),

### Start 4:

- Found in 32 of 32 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 10 of 23
- Called 59.4% of time when present
- Phage (with cluster) where this start called: Altheas\_69 (EG), BabyDotz\_64 (EG), DonaldDuck\_66 (EG), Gazebo\_63 (EG), Grassboy\_67 (EG), Judebell\_66 (EG), Kyva\_67 (EG), Llemily\_66 (EG), Lonelysoil\_62 (EG), Namago\_65 (EG), Quammi\_63 (EG), Rowlf\_62 (EG), Sillytadpoles\_67 (EG), StrawberryJamm\_69 (EG), Tissue\_65 (EG), Viceroy\_64 (EG), Wheelie\_65 (EG), Zagie\_65 (EG), Zhafia\_69 (EG),

## Summary by clusters:

There is one cluster represented in this pham: EG

Info for manual annotations of cluster EG:

- Start number 3 was manually annotated 13 times for cluster EG.
- Start number 4 was manually annotated 10 times for cluster EG.

## Gene Information:

Gene: Altheas\_69 Start: 45497, Stop: 45399, Start Num: 4

Candidate Starts for Altheas\_69:

(Start: 3 @45500 has 13 MA's), (Start: 4 @45497 has 10 MA's), (7, 45461), (12, 45422), (13, 45410),

Gene: AluminumJesus\_60 Start: 43858, Stop: 43760, Start Num: 3

Candidate Starts for AluminumJesus\_60:

(Start: 3 @43858 has 13 MA's), (Start: 4 @43855 has 10 MA's), (5, 43837), (6, 43831), (12, 43786), (13, 43774),

Gene: BabyDotz\_64 Start: 45514, Stop: 45422, Start Num: 4

Candidate Starts for BabyDotz\_64:

(Start: 3 @45517 has 13 MA's), (Start: 4 @45514 has 10 MA's), (5, 45496), (6, 45490), (12, 45445), (13, 45433),

Gene: Blab\_62 Start: 44753, Stop: 44655, Start Num: 3

Candidate Starts for Blab\_62:

(Start: 3 @44753 has 13 MA's), (Start: 4 @44750 has 10 MA's), (5, 44732), (8, 44708), (9, 44699), (12, 44681), (13, 44669),

Gene: Casend\_66 Start: 45188, Stop: 45090, Start Num: 3

Candidate Starts for Casend\_66:

(Start: 3 @45188 has 13 MA's), (Start: 4 @45185 has 10 MA's), (5, 45167), (6, 45161), (9, 45134), (12, 45116), (13, 45104),

Gene: DonaldDuck\_66 Start: 44534, Stop: 44439, Start Num: 4

Candidate Starts for DonaldDuck\_66:

(Start: 3 @44537 has 13 MA's), (Start: 4 @44534 has 10 MA's), (5, 44516), (6, 44510), (9, 44483), (12, 44465), (13, 44453),

Gene: Gazebo\_63 Start: 44803, Stop: 44708, Start Num: 4

Candidate Starts for Gazebo\_63:

(Start: 3 @44806 has 13 MA's), (Start: 4 @44803 has 10 MA's), (5, 44785), (6, 44779), (12, 44734), (13, 44722),

Gene: Grassboy\_67 Start: 45332, Stop: 45237, Start Num: 4

Candidate Starts for Grassboy\_67:

(1, 45581), (2, 45578), (Start: 3 @45335 has 13 MA's), (Start: 4 @45332 has 10 MA's), (5, 45314), (6, 45308), (9, 45281), (12, 45263), (13, 45251),

Gene: Hyperion\_64 Start: 44980, Stop: 44882, Start Num: 3

Candidate Starts for Hyperion\_64:

(Start: 3 @44980 has 13 MA's), (Start: 4 @44977 has 10 MA's), (5, 44959), (6, 44953), (12, 44908), (13, 44896),

Gene: Jehoshaphat\_67 Start: 45456, Stop: 45358, Start Num: 3

Candidate Starts for Jehoshaphat\_67:

(Start: 3 @45456 has 13 MA's), (Start: 4 @45453 has 10 MA's), (5, 45435), (6, 45429), (9, 45402), (12, 45384), (13, 45372),

Gene: Judebell\_66 Start: 44634, Stop: 44539, Start Num: 4

Candidate Starts for Judebell\_66:

(Start: 3 @44637 has 13 MA's), (Start: 4 @44634 has 10 MA's), (5, 44616), (6, 44610), (11, 44571), (12, 44565), (13, 44553),

Gene: Kyva\_67 Start: 45355, Stop: 45260, Start Num: 4

Candidate Starts for Kyva\_67:

(1, 45604), (2, 45601), (Start: 3 @45358 has 13 MA's), (Start: 4 @45355 has 10 MA's), (5, 45337), (6, 45331), (9, 45304), (12, 45286), (13, 45274),

Gene: Llemily\_66 Start: 44229, Stop: 44134, Start Num: 4

Candidate Starts for Llemily\_66:

(Start: 3 @44232 has 13 MA's), (Start: 4 @44229 has 10 MA's), (5, 44211), (6, 44205), (9, 44178), (12, 44160), (13, 44148),

Gene: Lonelysoil\_62 Start: 44108, Stop: 44013, Start Num: 4

Candidate Starts for Lonelysoil\_62:

(Start: 3 @44111 has 13 MA's), (Start: 4 @44108 has 10 MA's), (5, 44090), (6, 44084), (9, 44057), (12, 44039), (13, 44027),

Gene: Mashley\_64 Start: 44793, Stop: 44695, Start Num: 3

Candidate Starts for Mashley\_64:

(Start: 3 @44793 has 13 MA's), (Start: 4 @44790 has 10 MA's), (5, 44772), (6, 44766), (12, 44721), (13, 44709),

Gene: Namago\_65 Start: 44244, Stop: 44149, Start Num: 4

Candidate Starts for Namago\_65:

(Start: 3 @44247 has 13 MA's), (Start: 4 @44244 has 10 MA's), (5, 44226), (9, 44193), (12, 44175), (13, 44163),

Gene: Phabia\_65 Start: 44647, Stop: 44549, Start Num: 3

Candidate Starts for Phabia\_65:

(Start: 3 @44647 has 13 MA's), (Start: 4 @44644 has 10 MA's), (5, 44626), (6, 44620), (9, 44593), (12, 44575), (13, 44563),

Gene: Phinky\_74 Start: 46812, Stop: 46717, Start Num: 3

Candidate Starts for Phinky\_74:

(Start: 3 @46812 has 13 MA's), (Start: 4 @46809 has 10 MA's), (6, 46785), (9, 46758), (10, 46755), (12, 46740), (13, 46728),

Gene: Quammi\_63 Start: 44344, Stop: 44249, Start Num: 4

Candidate Starts for Quammi\_63:

(Start: 3 @44347 has 13 MA's), (Start: 4 @44344 has 10 MA's), (5, 44326), (6, 44320), (9, 44293), (12, 44275), (13, 44263),

Gene: Rowlf\_62 Start: 44135, Stop: 44043, Start Num: 4

Candidate Starts for Rowlf\_62:

(Start: 3 @44138 has 13 MA's), (Start: 4 @44135 has 10 MA's), (5, 44117), (6, 44111), (12, 44066), (13, 44054),

Gene: Rudy\_63 Start: 44383, Stop: 44285, Start Num: 3

Candidate Starts for Rudy\_63:

(Start: 3 @44383 has 13 MA's), (Start: 4 @44380 has 10 MA's), (5, 44362), (6, 44356), (9, 44329), (12, 44311), (13, 44299),

Gene: SallyK\_66 Start: 45503, Stop: 45405, Start Num: 3

Candidate Starts for SallyK\_66:

(Start: 3 @45503 has 13 MA's), (Start: 4 @45500 has 10 MA's), (5, 45482), (6, 45476), (12, 45431), (13, 45419),

Gene: Sillytadpoles\_67 Start: 44217, Stop: 44122, Start Num: 4

Candidate Starts for Sillytadpoles\_67:

(Start: 3 @44220 has 13 MA's), (Start: 4 @44217 has 10 MA's), (5, 44199), (6, 44193), (9, 44166), (12, 44148), (13, 44136),

Gene: Squash\_67 Start: 45506, Stop: 45408, Start Num: 3

Candidate Starts for Squash\_67:

(Start: 3 @45506 has 13 MA's), (Start: 4 @45503 has 10 MA's), (5, 45485), (6, 45479), (12, 45434), (13, 45422),

Gene: StrawberryJamm\_69 Start: 44541, Stop: 44446, Start Num: 4

Candidate Starts for StrawberryJamm\_69:

(Start: 3 @44544 has 13 MA's), (Start: 4 @44541 has 10 MA's), (5, 44523), (6, 44517), (12, 44472), (13, 44460),

Gene: Teehee\_66 Start: 45453, Stop: 45355, Start Num: 3

Candidate Starts for Teehee\_66:

(Start: 3 @45453 has 13 MA's), (Start: 4 @45450 has 10 MA's), (5, 45432), (6, 45426), (9, 45399), (12, 45381), (13, 45369),

Gene: Tissue\_65 Start: 45201, Stop: 45106, Start Num: 4

Candidate Starts for Tissue\_65:

(Start: 3 @45204 has 13 MA's), (Start: 4 @45201 has 10 MA's), (5, 45183), (6, 45177), (9, 45150), (12, 45132), (13, 45120),

Gene: Viceroy\_64 Start: 44350, Stop: 44255, Start Num: 4

Candidate Starts for Viceroy\_64:

(Start: 3 @44353 has 13 MA's), (Start: 4 @44350 has 10 MA's), (5, 44332), (6, 44326), (9, 44299), (12, 44281), (13, 44269),

Gene: Wayne3\_67 Start: 45216, Stop: 45118, Start Num: 3

Candidate Starts for Wayne3\_67:

(Start: 3 @45216 has 13 MA's), (Start: 4 @45213 has 10 MA's), (5, 45195), (6, 45189), (9, 45162), (12, 45144), (13, 45132),

Gene: Wheelie\_65 Start: 44534, Stop: 44439, Start Num: 4

Candidate Starts for Wheelie\_65:

(Start: 3 @44537 has 13 MA's), (Start: 4 @44534 has 10 MA's), (5, 44516), (6, 44510), (9, 44483), (12, 44465), (13, 44453),

Gene: Zagie\_65 Start: 44776, Stop: 44681, Start Num: 4

Candidate Starts for Zagie\_65:

(Start: 3 @44779 has 13 MA's), (Start: 4 @44776 has 10 MA's), (6, 44752), (9, 44725), (12, 44707), (13, 44695),

Gene: Zhafia\_69 Start: 45014, Stop: 44919, Start Num: 4

Candidate Starts for Zhafia\_69:

(Start: 3 @45017 has 13 MA's), (Start: 4 @45014 has 10 MA's), (5, 44996), (6, 44990), (9, 44963), (12, 44945), (13, 44933),