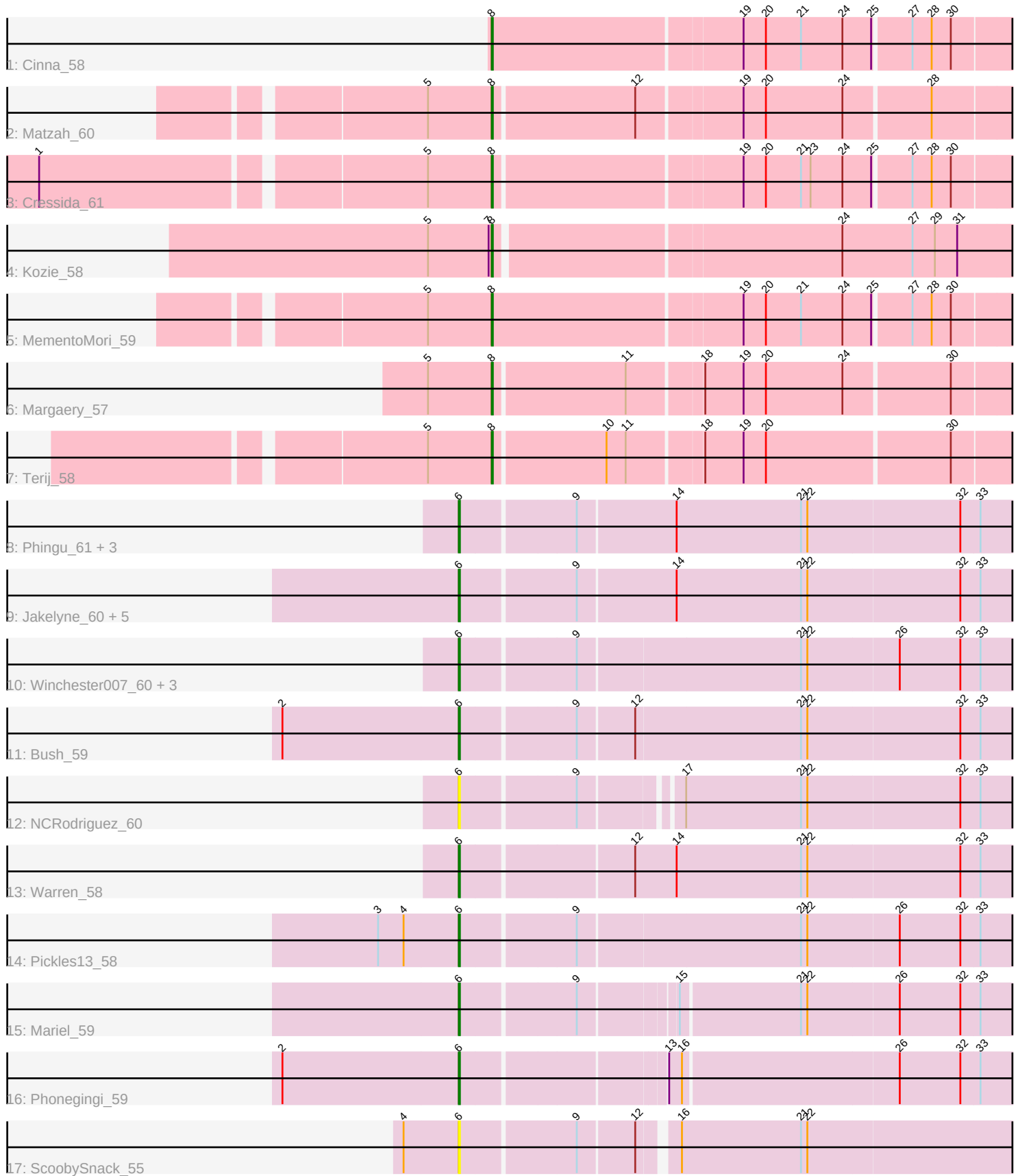


# Pham 331136



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 331136 Report

This analysis was run 09/05/26 on database version 662.

Pham number 331136 has 28 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Cinna\_58
- Track 2 : Matzah\_60
- Track 3 : Cressida\_61
- Track 4 : Kozie\_58
- Track 5 : MementoMori\_59
- Track 6 : Margaery\_57
- Track 7 : Terij\_58
- Track 8 : Phingu\_61, MenE\_60, Blett\_58, Guzman\_58
- Track 9 : Jakelyne\_60, Antuna\_60, CookieDog\_58, Carrillo\_60, Losacky\_60, Violeta\_60
- Track 10 : Winchester007\_60, PhillyJawn\_59, Dropshot\_58, Appa\_58
- Track 11 : Bush\_59
- Track 12 : NCRodriguez\_60
- Track 13 : Warren\_58
- Track 14 : Pickles13\_58
- Track 15 : Mariel\_59
- Track 16 : Phonegingi\_59
- Track 17 : ScoobySnack\_55

### ***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 17 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Antuna\_60, Appa\_58, Blett\_58, Bush\_59, Carrillo\_60, CookieDog\_58, Dropshot\_58, Guzman\_58, Jakelyne\_60, Losacky\_60, Mariel\_59, MenE\_60, NCRodriguez\_60, PhillyJawn\_59, Phingu\_61, Phonegingi\_59, Pickles13\_58, ScoobySnack\_55, Violeta\_60, Warren\_58, Winchester007\_60,

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

- 

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

• Cinna\_58, Cressida\_61, Kozie\_58, Margaery\_57, Matzah\_60, MementoMori\_59, Terij\_58,

### Summary by start number:

Start 6:

- Found in 21 of 28 ( 75.0% ) of genes in pham
- Manual Annotations of this start: 17 of 24
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Antuna\_60 (GA), Appa\_58 (GA), Blett\_58 (GA), Bush\_59 (GA), Carrillo\_60 (GA), CookieDog\_58 (GA), Dropshot\_58 (GA), Guzman\_58 (GA), Jakelyne\_60 (GA), Losacky\_60 (GA), Mariel\_59 (GA), MenE\_60 (GA), NCRodriguez\_60 (GA), PhillyJawn\_59 (GA), Phingu\_61 (GA), Phonegingi\_59 (GA), Pickles13\_58 (GA), ScoobySnack\_55 (GA), Violeta\_60 (GA), Warren\_58 (GA), Winchester007\_60 (GA),

Start 8:

- Found in 7 of 28 ( 25.0% ) of genes in pham
- Manual Annotations of this start: 7 of 24
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Cinna\_58 (EI), Cressida\_61 (EI), Kozie\_58 (EI), Margaery\_57 (EI), Matzah\_60 (EI), MementoMori\_59 (EI), Terij\_58 (EI),

### Summary by clusters:

There are 2 clusters represented in this pham: EI, GA,

Info for manual annotations of cluster EI:

- Start number 8 was manually annotated 7 times for cluster EI.

Info for manual annotations of cluster GA:

- Start number 6 was manually annotated 17 times for cluster GA.

### Gene Information:

Gene: Antuna\_60 Start: 34595, Stop: 35113, Start Num: 6

Candidate Starts for Antuna\_60:

(Start: 6 @34595 has 17 MA's), (9, 34697), (14, 34787), (21, 34904), (22, 34910), (32, 35051), (33, 35069),

Gene: Appa\_58 Start: 34360, Stop: 34875, Start Num: 6

Candidate Starts for Appa\_58:

(Start: 6 @34360 has 17 MA's), (9, 34462), (21, 34666), (22, 34672), (26, 34756), (32, 34813), (33, 34831),

Gene: Blett\_58 Start: 34545, Stop: 35063, Start Num: 6

Candidate Starts for Blett\_58:

(Start: 6 @34545 has 17 MA's), (9, 34647), (14, 34737), (21, 34854), (22, 34860), (32, 35001), (33, 35019),

Gene: Bush\_59 Start: 34494, Stop: 35009, Start Num: 6

Candidate Starts for Bush\_59:

(2, 34329), (Start: 6 @34494 has 17 MA's), (9, 34596), (12, 34647), (21, 34800), (22, 34806), (32, 34947), (33, 34965),

Gene: Carrillo\_60 Start: 34468, Stop: 34986, Start Num: 6

Candidate Starts for Carrillo\_60:

(Start: 6 @34468 has 17 MA's), (9, 34570), (14, 34660), (21, 34777), (22, 34783), (32, 34924), (33, 34942),

Gene: Cinna\_58 Start: 40223, Stop: 40708, Start Num: 8

Candidate Starts for Cinna\_58:

(Start: 8 @40223 has 7 MA's), (19, 40451), (20, 40472), (21, 40505), (24, 40544), (25, 40571), (27, 40604), (28, 40622), (30, 40640),

Gene: CookieDog\_58 Start: 34468, Stop: 34986, Start Num: 6

Candidate Starts for CookieDog\_58:

(Start: 6 @34468 has 17 MA's), (9, 34570), (14, 34660), (21, 34777), (22, 34783), (32, 34924), (33, 34942),

Gene: Cressida\_61 Start: 39855, Stop: 40334, Start Num: 8

Candidate Starts for Cressida\_61:

(1, 39453), (5, 39795), (Start: 8 @39855 has 7 MA's), (19, 40077), (20, 40098), (21, 40131), (23, 40140), (24, 40170), (25, 40197), (27, 40230), (28, 40248), (30, 40266),

Gene: Dropshot\_58 Start: 34195, Stop: 34710, Start Num: 6

Candidate Starts for Dropshot\_58:

(Start: 6 @34195 has 17 MA's), (9, 34297), (21, 34501), (22, 34507), (26, 34591), (32, 34648), (33, 34666),

Gene: Guzman\_58 Start: 34415, Stop: 34933, Start Num: 6

Candidate Starts for Guzman\_58:

(Start: 6 @34415 has 17 MA's), (9, 34517), (14, 34607), (21, 34724), (22, 34730), (32, 34871), (33, 34889),

Gene: Jakelyne\_60 Start: 34561, Stop: 35079, Start Num: 6

Candidate Starts for Jakelyne\_60:

(Start: 6 @34561 has 17 MA's), (9, 34663), (14, 34753), (21, 34870), (22, 34876), (32, 35017), (33, 35035),

Gene: Kozie\_58 Start: 39608, Stop: 40093, Start Num: 8

Candidate Starts for Kozie\_58:

(5, 39548), (7, 39605), (Start: 8 @39608 has 7 MA's), (24, 39920), (27, 39986), (29, 40007), (31, 40028),

Gene: Losacky\_60 Start: 34726, Stop: 35244, Start Num: 6

Candidate Starts for Losacky\_60:

(Start: 6 @34726 has 17 MA's), (9, 34828), (14, 34918), (21, 35035), (22, 35041), (32, 35182), (33, 35200),

Gene: Margaery\_57 Start: 39484, Stop: 39963, Start Num: 8

Candidate Starts for Margaery\_57:

(5, 39424), (Start: 8 @39484 has 7 MA's), (11, 39604), (18, 39670), (19, 39706), (20, 39727), (24, 39799), (30, 39895),

Gene: Mariel\_59 Start: 34944, Stop: 35447, Start Num: 6

Candidate Starts for Mariel\_59:

(Start: 6 @34944 has 17 MA's), (9, 35046), (15, 35130), (21, 35238), (22, 35244), (26, 35328), (32, 35385), (33, 35403),

Gene: Matzah\_60 Start: 40308, Stop: 40787, Start Num: 8

Candidate Starts for Matzah\_60:

(5, 40248), (Start: 8 @40308 has 7 MA's), (12, 40437), (19, 40530), (20, 40551), (24, 40623), (28, 40701),

Gene: MementoMori\_59 Start: 39882, Stop: 40367, Start Num: 8

Candidate Starts for MementoMori\_59:

(5, 39822), (Start: 8 @39882 has 7 MA's), (19, 40110), (20, 40131), (21, 40164), (24, 40203), (25, 40230), (27, 40263), (28, 40281), (30, 40299),

Gene: MenE\_60 Start: 34617, Stop: 35135, Start Num: 6

Candidate Starts for MenE\_60:

(Start: 6 @34617 has 17 MA's), (9, 34719), (14, 34809), (21, 34926), (22, 34932), (32, 35073), (33, 35091),

Gene: NCRodriguez\_60 Start: 34686, Stop: 35189, Start Num: 6

Candidate Starts for NCRodriguez\_60:

(Start: 6 @34686 has 17 MA's), (9, 34788), (17, 34872), (21, 34980), (22, 34986), (32, 35127), (33, 35145),

Gene: PhillyJawn\_59 Start: 34357, Stop: 34872, Start Num: 6

Candidate Starts for PhillyJawn\_59:

(Start: 6 @34357 has 17 MA's), (9, 34459), (21, 34663), (22, 34669), (26, 34753), (32, 34810), (33, 34828),

Gene: Phingu\_61 Start: 34581, Stop: 35099, Start Num: 6

Candidate Starts for Phingu\_61:

(Start: 6 @34581 has 17 MA's), (9, 34683), (14, 34773), (21, 34890), (22, 34896), (32, 35037), (33, 35055),

Gene: Phonegingi\_59 Start: 34677, Stop: 35180, Start Num: 6

Candidate Starts for Phonegingi\_59:

(2, 34512), (Start: 6 @34677 has 17 MA's), (13, 34854), (16, 34866), (26, 35061), (32, 35118), (33, 35136),

Gene: Pickles13\_58 Start: 35036, Stop: 35551, Start Num: 6

Candidate Starts for Pickles13\_58:

(3, 34961), (4, 34985), (Start: 6 @35036 has 17 MA's), (9, 35138), (21, 35342), (22, 35348), (26, 35432), (32, 35489), (33, 35507),

Gene: ScoobySnack\_55 Start: 34331, Stop: 34834, Start Num: 6

Candidate Starts for ScoobySnack\_55:

(4, 34280), (Start: 6 @34331 has 17 MA's), (9, 34433), (12, 34484), (16, 34514), (21, 34625), (22, 34631),

Gene: Terij\_58 Start: 38927, Stop: 39406, Start Num: 8

Candidate Starts for Terij\_58:

(5, 38867), (Start: 8 @38927 has 7 MA's), (10, 39029), (11, 39047), (18, 39113), (19, 39149), (20, 39170), (30, 39338),

Gene: Violeta\_60 Start: 34459, Stop: 34977, Start Num: 6

Candidate Starts for Violeta\_60:

(Start: 6 @34459 has 17 MA's), (9, 34561), (14, 34651), (21, 34768), (22, 34774), (32, 34915), (33, 34933),

Gene: Warren\_58 Start: 34417, Stop: 34935, Start Num: 6

Candidate Starts for Warren\_58:

(Start: 6 @34417 has 17 MA's), (12, 34570), (14, 34609), (21, 34726), (22, 34732), (32, 34873), (33, 34891),

Gene: Winchester007\_60 Start: 34162, Stop: 34677, Start Num: 6

Candidate Starts for Winchester007\_60:

(Start: 6 @34162 has 17 MA's), (9, 34264), (21, 34468), (22, 34474), (26, 34558), (32, 34615), (33, 34633),