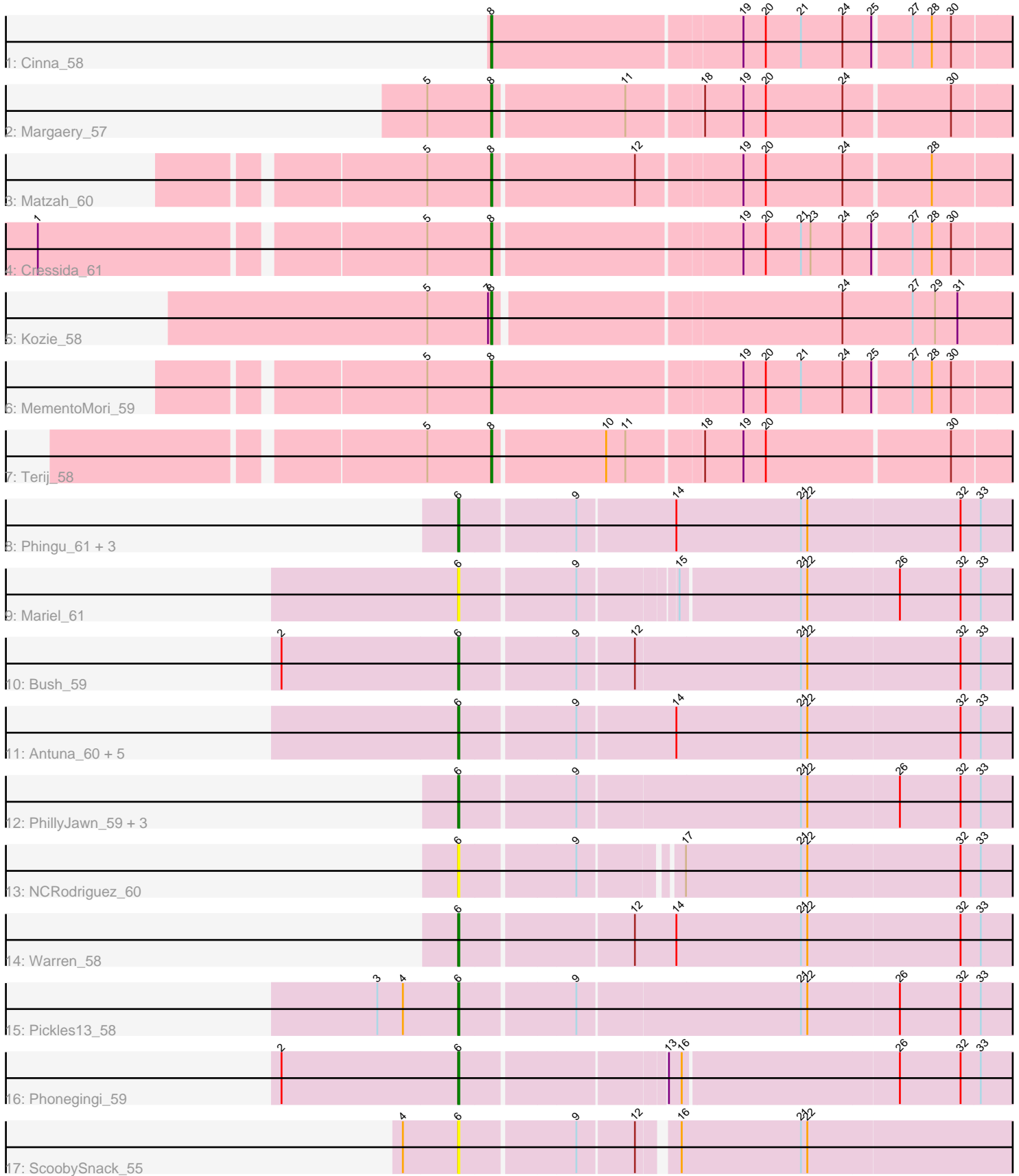


Pham 309068



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 309068 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309068 has 28 members, 10 are drafts.

Phages represented in each track:

- Track 1 : Cinna_58
- Track 2 : Margaery_57
- Track 3 : Matzah_60
- Track 4 : Cressida_61
- Track 5 : Kozie_58
- Track 6 : MementoMori_59
- Track 7 : Terij_58
- Track 8 : Phingu_61, MenE_60, Blett_58, Guzman_58
- Track 9 : Mariel_61
- Track 10 : Bush_59
- Track 11 : Antuna_60, CookieDog_58, Jakelyne_61, Carrillo_60, Losacky_60, Violeta_60
- Track 12 : PhillyJawn_59, Dropshot_58, Winchester007_5, Appa_58
- Track 13 : NCRodriguez_60
- Track 14 : Warren_58
- Track 15 : Pickles13_58
- 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 11 of the 18 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_61, Losacky_60, Mariel_61, MenE_60, NCRodriguez_60, PhillyJawn_59, Phingu_61, Phonegingi_59, Pickles13_58, ScoobySnack_55, Violeta_60, Warren_58, Winchester007_5,

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: 11 of 18
- 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_61 (GA), Losacky_60 (GA), Mariel_61 (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_5 (GA),

Start 8:

- Found in 7 of 28 (25.0%) of genes in pham
- Manual Annotations of this start: 7 of 18
- 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 11 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 11 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 11 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 11 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 11 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 11 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 11 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 11 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 11 MA's), (9, 34517), (14, 34607), (21, 34724), (22, 34730), (32, 34871), (33, 34889),

Gene: Jakelyne_61 Start: 34561, Stop: 35079, Start Num: 6

Candidate Starts for Jakelyne_61:

(Start: 6 @34561 has 11 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 11 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_61 Start: 34944, Stop: 35447, Start Num: 6

Candidate Starts for Mariel_61:

(Start: 6 @34944 has 11 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 11 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 11 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 11 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 11 MA's), (9, 34683), (14, 34773), (21, 34890), (22, 34896), (32, 35037), (33, 35055),

Gene: Phoningi_59 Start: 34677, Stop: 35180, Start Num: 6

Candidate Starts for Phoningi_59:

(2, 34512), (Start: 6 @34677 has 11 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 11 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 11 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 11 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 11 MA's), (12, 34570), (14, 34609), (21, 34726), (22, 34732), (32, 34873), (33, 34891),

Gene: Winchester007_5 Start: 1631, Stop: 2146, Start Num: 6

Candidate Starts for Winchester007_5:

(Start: 6 @1631 has 11 MA's), (9, 1733), (21, 1937), (22, 1943), (26, 2027), (32, 2084), (33, 2102),