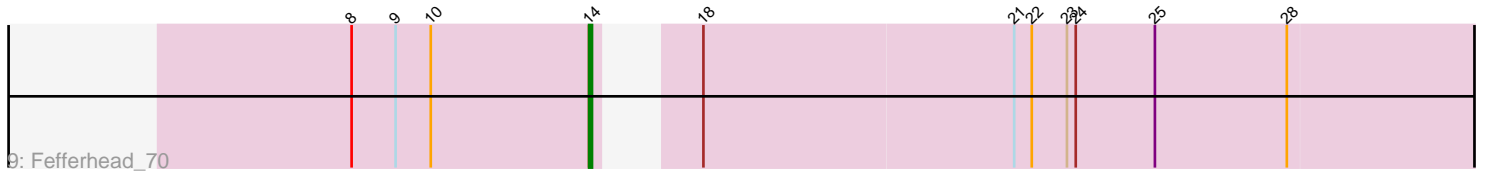
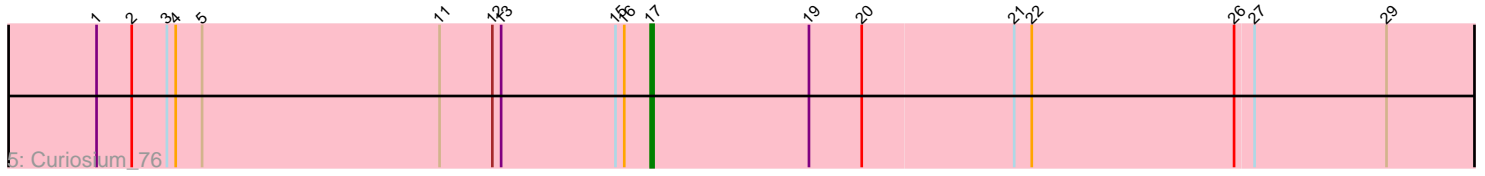
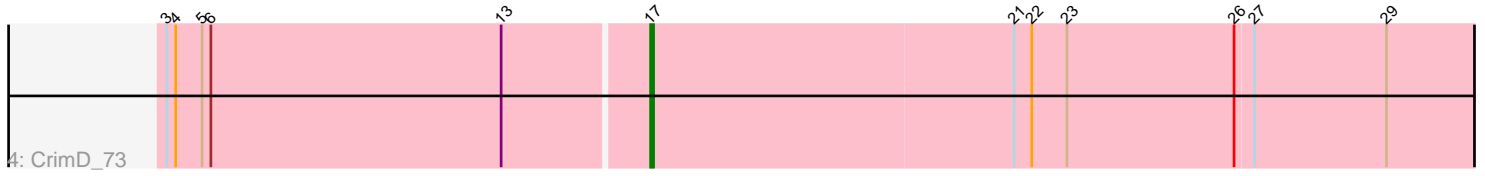
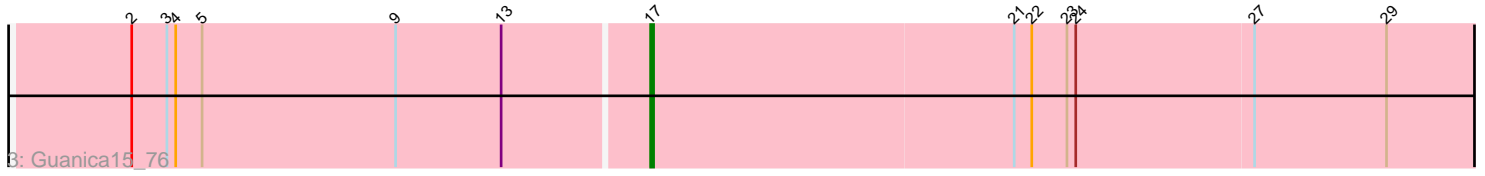
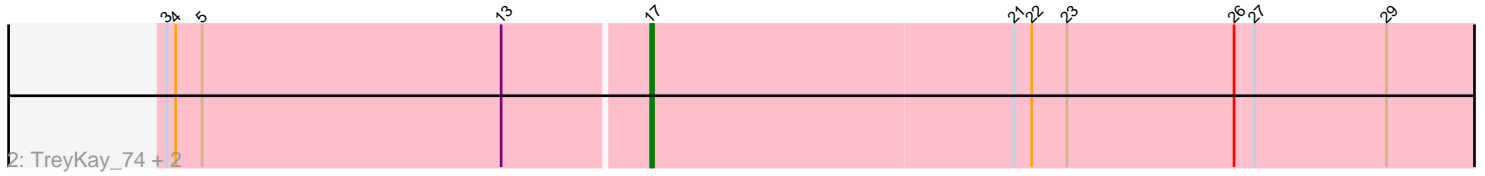


Pham 5543



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 5543 Report

This analysis was run 07/09/24 on database version 566.

Pham number 5543 has 11 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Yunkel11\_76
- Track 2 : TreyKay\_74, Prithvi\_74, LindNT\_70
- Track 3 : Guanica15\_76
- Track 4 : CrimD\_73
- Track 5 : Curiosium\_76
- Track 6 : LastHope\_76
- Track 7 : TaiwanKao\_73
- Track 8 : Efra2\_77
- Track 9 : Fefferhead\_70

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

The start number called the most often in the published annotations is 17, it was called in 9 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- CrimD\_73, Curiosium\_76, Efra2\_77, Guanica15\_76, LastHope\_76, LindNT\_70, Prithvi\_74, TaiwanKao\_73, TreyKay\_74, Yunkel11\_76,

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

- 

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

- Fefferhead\_70,

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

Start 14:

- Found in 1 of 11 ( 9.1% ) 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: Fefferhead\_70 (K6),

Start 17:

- Found in 10 of 11 ( 90.9% ) of genes in pham
- Manual Annotations of this start: 9 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CrimD\_73 (K1), Curiosium\_76 (K1), Efra2\_77 (K1), Guanica15\_76 (K1), LastHope\_76 (K1), LindNT\_70 (K1), Prithvi\_74 (K1), TaiwanKao\_73 (K1), TreyKay\_74 (K1), Yunkel11\_76 (K1),

### **Summary by clusters:**

There are 2 clusters represented in this pham: K1, K6,

Info for manual annotations of cluster K1:

- Start number 17 was manually annotated 9 times for cluster K1.

Info for manual annotations of cluster K6:

- Start number 14 was manually annotated 1 time for cluster K6.

### **Gene Information:**

Gene: CrimD\_73 Start: 49016, Stop: 49321, Start Num: 17

Candidate Starts for CrimD\_73:

(3, 48854), (4, 48857), (5, 48866), (6, 48869), (13, 48968), (Start: 17 @49016 has 9 MA's), (21, 49139), (22, 49145), (23, 49157), (26, 49214), (27, 49220), (29, 49265),

Gene: Curiosium\_76 Start: 47700, Stop: 48005, Start Num: 17

Candidate Starts for Curiosium\_76:

(1, 47511), (2, 47523), (3, 47535), (4, 47538), (5, 47547), (11, 47628), (12, 47646), (13, 47649), (15, 47688), (16, 47691), (Start: 17 @47700 has 9 MA's), (19, 47754), (20, 47772), (21, 47823), (22, 47829), (26, 47898), (27, 47904), (29, 47949),

Gene: Efra2\_77 Start: 48563, Stop: 48868, Start Num: 17

Candidate Starts for Efra2\_77:

(3, 48401), (4, 48404), (5, 48413), (9, 48479), (Start: 17 @48563 has 9 MA's), (21, 48686), (22, 48692), (23, 48704), (24, 48707), (27, 48767), (29, 48812),

Gene: Fefferhead\_70 Start: 47854, Stop: 48159, Start Num: 14

Candidate Starts for Fefferhead\_70:

(8, 47773), (9, 47788), (10, 47800), (Start: 14 @47854 has 1 MA's), (18, 47872), (21, 47977), (22, 47983), (23, 47995), (24, 47998), (25, 48025), (28, 48070),

Gene: Guanica15\_76 Start: 48309, Stop: 48614, Start Num: 17

Candidate Starts for Guanica15\_76:

(2, 48135), (3, 48147), (4, 48150), (5, 48159), (9, 48225), (13, 48261), (Start: 17 @48309 has 9 MA's), (21, 48432), (22, 48438), (23, 48450), (24, 48453), (27, 48513), (29, 48558),

Gene: LastHope\_76 Start: 47419, Stop: 47724, Start Num: 17

Candidate Starts for LastHope\_76:

(7, 47287), (13, 47371), (15, 47407), (Start: 17 @47419 has 9 MA's), (21, 47542), (22, 47548), (23, 47560), (24, 47563), (26, 47617), (27, 47623), (29, 47668),

Gene: LindNT\_70 Start: 48480, Stop: 48785, Start Num: 17

Candidate Starts for LindNT\_70:

(3, 48318), (4, 48321), (5, 48330), (13, 48432), (Start: 17 @48480 has 9 MA's), (21, 48603), (22, 48609), (23, 48621), (26, 48678), (27, 48684), (29, 48729),

Gene: Prithvi\_74 Start: 48480, Stop: 48785, Start Num: 17

Candidate Starts for Prithvi\_74:

(3, 48318), (4, 48321), (5, 48330), (13, 48432), (Start: 17 @48480 has 9 MA's), (21, 48603), (22, 48609), (23, 48621), (26, 48678), (27, 48684), (29, 48729),

Gene: TaiwanKao\_73 Start: 48525, Stop: 48830, Start Num: 17

Candidate Starts for TaiwanKao\_73:

(3, 48363), (4, 48366), (5, 48375), (7, 48393), (9, 48441), (13, 48477), (Start: 17 @48525 has 9 MA's), (21, 48648), (22, 48654), (23, 48666), (24, 48669), (27, 48729), (29, 48774),

Gene: TreyKay\_74 Start: 48480, Stop: 48785, Start Num: 17

Candidate Starts for TreyKay\_74:

(3, 48318), (4, 48321), (5, 48330), (13, 48432), (Start: 17 @48480 has 9 MA's), (21, 48603), (22, 48609), (23, 48621), (26, 48678), (27, 48684), (29, 48729),

Gene: Yunkel11\_76 Start: 48314, Stop: 48619, Start Num: 17

Candidate Starts for Yunkel11\_76:

(3, 48152), (4, 48155), (5, 48164), (9, 48230), (13, 48266), (Start: 17 @48314 has 9 MA's), (21, 48437), (22, 48443), (23, 48455), (24, 48458), (27, 48518), (29, 48563),