

Pham 170396



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 170396 Report

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

Pham number 170396 has 15 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Argan\_78
- Track 2 : GantcherGoblin\_81
- Track 3 : Argan\_81
- Track 4 : Renaldo\_88
- Track 5 : Lewando\_81
- Track 6 : GantcherGoblin\_77
- Track 7 : Uzumaki\_82
- Track 8 : Zeina\_82
- Track 9 : Leathea\_82
- Track 10 : Uzumaki\_78
- Track 11 : BarbieDoll\_83
- Track 12 : Renaldo\_86
- Track 13 : Elver\_226, Paella\_231, Qui\_230

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

The start number called the most often in the published annotations is 11, it was called in 7 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Argan\_78, BarbieDoll\_83, Elver\_226, GantcherGoblin\_77, Leathea\_82, Lewando\_81, Paella\_231, Qui\_230, Renaldo\_86, Uzumaki\_78, Zeina\_82,

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

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

- Argan\_81, GantcherGoblin\_81, Renaldo\_88, Uzumaki\_82,

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

Start 9:

- Found in 3 of 15 ( 20.0% ) of genes in pham
- Manual Annotations of this start: 3 of 10

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Argan\_81 (AU6), GantcherGoblin\_81 (AU6), Uzumaki\_82 (AU6),

Start 10:

- Found in 1 of 15 ( 6.7% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Renaldo\_88 (AU6),

Start 11:

- Found in 11 of 15 ( 73.3% ) of genes in pham
- Manual Annotations of this start: 7 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Argan\_78 (AU6), BarbieDoll\_83 (AU6), Elver\_226 (FK), GantcherGoblin\_77 (AU6), Leathea\_82 (AU6), Lewando\_81 (AU6), Paella\_231 (FK), Qui\_230 (FK), Renaldo\_86 (AU6), Uzumaki\_78 (AU6), Zeina\_82 (AU6),

### **Summary by clusters:**

There are 2 clusters represented in this pham: FK, AU6,

Info for manual annotations of cluster AU6:

- Start number 9 was manually annotated 3 times for cluster AU6.
- Start number 11 was manually annotated 5 times for cluster AU6.

Info for manual annotations of cluster FK:

- Start number 11 was manually annotated 2 times for cluster FK.

### **Gene Information:**

Gene: Argan\_78 Start: 47443, Stop: 47799, Start Num: 11

Candidate Starts for Argan\_78:

(3, 47368), (6, 47410), (Start: 11 @47443 has 7 MA's), (12, 47482), (23, 47578), (28, 47680), (29, 47695), (33, 47716),

Gene: Argan\_81 Start: 48463, Stop: 48813, Start Num: 9

Candidate Starts for Argan\_81:

(Start: 9 @48463 has 3 MA's), (13, 48520), (18, 48550), (24, 48589), (25, 48592), (31, 48721), (32, 48724), (33, 48727), (37, 48784), (38, 48802),

Gene: BarbieDoll\_83 Start: 49031, Stop: 49393, Start Num: 11

Candidate Starts for BarbieDoll\_83:

(1, 48926), (2, 48932), (5, 48989), (7, 49001), (Start: 11 @49031 has 7 MA's), (12, 49070), (13, 49082),

Gene: Elver\_226 Start: 104016, Stop: 104375, Start Num: 11

Candidate Starts for Elver\_226:

(Start: 11 @104016 has 7 MA's), (13, 104067), (16, 104088), (19, 104103), (22, 104136), (33, 104289), (34, 104295), (35, 104313), (39, 104367),

Gene: GantcherGoblin\_81 Start: 48864, Stop: 49214, Start Num: 9  
Candidate Starts for GantcherGoblin\_81:  
(Start: 9 @48864 has 3 MA's), (13, 48921), (18, 48951), (27, 49062), (29, 49107), (32, 49125), (37, 49185), (38, 49203),

Gene: GantcherGoblin\_77 Start: 47604, Stop: 47960, Start Num: 11  
Candidate Starts for GantcherGoblin\_77:  
(3, 47529), (6, 47571), (Start: 11 @47604 has 7 MA's), (12, 47643), (23, 47739), (28, 47841), (29, 47856),

Gene: Leathea\_82 Start: 47629, Stop: 47991, Start Num: 11  
Candidate Starts for Leathea\_82:  
(5, 47587), (7, 47599), (Start: 11 @47629 has 7 MA's), (12, 47668), (15, 47686), (17, 47704), (30, 47890),

Gene: Lewando\_81 Start: 48819, Stop: 49181, Start Num: 11  
Candidate Starts for Lewando\_81:  
(1, 48714), (2, 48720), (4, 48756), (5, 48777), (7, 48789), (Start: 11 @48819 has 7 MA's), (21, 48942),

Gene: Paella\_231 Start: 105153, Stop: 105512, Start Num: 11  
Candidate Starts for Paella\_231:  
(Start: 11 @105153 has 7 MA's), (13, 105204), (16, 105225), (19, 105240), (22, 105273), (33, 105426), (34, 105432), (35, 105450), (39, 105504),

Gene: Qui\_230 Start: 105141, Stop: 105500, Start Num: 11  
Candidate Starts for Qui\_230:  
(Start: 11 @105141 has 7 MA's), (13, 105192), (16, 105213), (19, 105228), (22, 105261), (33, 105414), (34, 105420), (35, 105438), (39, 105492),

Gene: Renaldo\_88 Start: 49716, Stop: 50066, Start Num: 10  
Candidate Starts for Renaldo\_88:  
(10, 49716), (18, 49803), (20, 49824), (24, 49842), (25, 49845), (29, 49959), (32, 49977), (33, 49980), (37, 50037),

Gene: Renaldo\_86 Start: 49031, Stop: 49390, Start Num: 11  
Candidate Starts for Renaldo\_86:  
(7, 49001), (Start: 11 @49031 has 7 MA's), (13, 49082), (21, 49154), (23, 49166), (28, 49271), (29, 49286), (36, 49346),

Gene: Uzumaki\_82 Start: 48832, Stop: 49182, Start Num: 9  
Candidate Starts for Uzumaki\_82:  
(Start: 9 @48832 has 3 MA's), (13, 48889), (18, 48919), (24, 48958), (25, 48961), (26, 48973), (27, 49030), (32, 49093), (37, 49153), (38, 49171),

Gene: Uzumaki\_78 Start: 47572, Stop: 47928, Start Num: 11  
Candidate Starts for Uzumaki\_78:  
(3, 47503), (8, 47554), (Start: 11 @47572 has 7 MA's), (14, 47626), (28, 47809), (29, 47824), (33, 47845),

Gene: Zeina\_82 Start: 48280, Stop: 48642, Start Num: 11  
Candidate Starts for Zeina\_82:

(1, 48175), (2, 48181), (4, 48217), (5, 48238), (7, 48250), (Start: 11 @48280 has 7 MA's), (12, 48319),  
(14, 48334), (23, 48415),