



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 299020 Report

This analysis was run 06/08/26 on database version 649.

Pham number 299020 has 11 members, 0 are drafts.

Phages represented in each track:

- Track 1 : BobtimousPrime\_39
- Track 2 : Oaker\_37, Damien\_37, Megatron06\_39, Beckerton\_37, Cborch11\_38
- Track 3 : Thumb\_37
- Track 4 : Predator\_39
- Track 5 : Puissant\_38
- Track 6 : Phreeze\_37
- Track 7 : Konstantine\_42

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

The start number called the most often in the published annotations is 1, it was called in 11 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Beckerton\_37, BobtimousPrime\_39, Cborch11\_38, Damien\_37, Konstantine\_42, Megatron06\_39, Oaker\_37, Phreeze\_37, Predator\_39, Puissant\_38, Thumb\_37,

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

- 

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

- 

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

Start 1:

- Found in 11 of 11 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 11 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Beckerton\_37 (H1), BobtimousPrime\_39 (H1), Cborch11\_38 (H1), Damien\_37 (H1), Konstantine\_42 (H1), Megatron06\_39 (H1), Oaker\_37 (H1), Phreeze\_37 (H1), Predator\_39 (H1), Puissant\_38 (H1), Thumb\_37 (H1),

## Summary by clusters:

There is one cluster represented in this pham: H1

Info for manual annotations of cluster H1:

•Start number 1 was manually annotated 11 times for cluster H1.

### **Gene Information:**

Gene: Beckerton\_37 Start: 33873, Stop: 34388, Start Num: 1

Candidate Starts for Beckerton\_37:

(Start: 1 @33873 has 11 MA's), (3, 33945), (4, 33948), (6, 33960), (8, 34089), (9, 34146), (12, 34233), (13, 34305), (14, 34323), (15, 34335),

Gene: BobtimousPrime\_39 Start: 33793, Stop: 34308, Start Num: 1

Candidate Starts for BobtimousPrime\_39:

(Start: 1 @33793 has 11 MA's), (2, 33814), (3, 33865), (9, 34066), (12, 34153), (13, 34225), (14, 34243), (15, 34255),

Gene: Cborch11\_38 Start: 33338, Stop: 33853, Start Num: 1

Candidate Starts for Cborch11\_38:

(Start: 1 @33338 has 11 MA's), (3, 33410), (4, 33413), (6, 33425), (8, 33554), (9, 33611), (12, 33698), (13, 33770), (14, 33788), (15, 33800),

Gene: Damien\_37 Start: 33339, Stop: 33854, Start Num: 1

Candidate Starts for Damien\_37:

(Start: 1 @33339 has 11 MA's), (3, 33411), (4, 33414), (6, 33426), (8, 33555), (9, 33612), (12, 33699), (13, 33771), (14, 33789), (15, 33801),

Gene: Konstantine\_42 Start: 34540, Stop: 35055, Start Num: 1

Candidate Starts for Konstantine\_42:

(Start: 1 @34540 has 11 MA's), (3, 34612), (4, 34615), (6, 34627), (9, 34813), (12, 34900), (13, 34972), (14, 34990), (15, 35002),

Gene: Megatron06\_39 Start: 33872, Stop: 34387, Start Num: 1

Candidate Starts for Megatron06\_39:

(Start: 1 @33872 has 11 MA's), (3, 33944), (4, 33947), (6, 33959), (8, 34088), (9, 34145), (12, 34232), (13, 34304), (14, 34322), (15, 34334),

Gene: Oaker\_37 Start: 33596, Stop: 34111, Start Num: 1

Candidate Starts for Oaker\_37:

(Start: 1 @33596 has 11 MA's), (3, 33668), (4, 33671), (6, 33683), (8, 33812), (9, 33869), (12, 33956), (13, 34028), (14, 34046), (15, 34058),

Gene: Phreeze\_37 Start: 33339, Stop: 33854, Start Num: 1

Candidate Starts for Phreeze\_37:

(Start: 1 @33339 has 11 MA's), (3, 33411), (9, 33612), (12, 33699), (13, 33771), (14, 33789), (15, 33801),

Gene: Predator\_39 Start: 32530, Stop: 33021, Start Num: 1

Candidate Starts for Predator\_39:

(Start: 1 @32530 has 11 MA's), (9, 32803), (10, 32854), (11, 32860), (14, 32980), (15, 32992),

Gene: Puissant\_38 Start: 33827, Stop: 34342, Start Num: 1

Candidate Starts for Puissant\_38:

(Start: 1 @33827 has 11 MA's), (4, 33902), (5, 33911), (7, 33923), (8, 34043), (9, 34100), (12, 34187),  
(14, 34277), (15, 34289),

Gene: Thumb\_37 Start: 33336, Stop: 33851, Start Num: 1

Candidate Starts for Thumb\_37:

(Start: 1 @33336 has 11 MA's), (3, 33408), (4, 33411), (6, 33423), (8, 33552), (12, 33696), (13, 33768),  
(14, 33786), (15, 33798),