



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 12017 Report

This analysis was run 04/05/24 on database version 557.

Pham number 12017 has 6 members, 1 are drafts.

Phages represented in each track:

- Track 1 : DyoEdafos\_32
- Track 2 : Douge\_31
- Track 3 : Chaser\_31
- Track 4 : Bromden\_33
- Track 5 : Baudelaire\_37, Aegeus\_37

### ***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 4 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Aegeus\_37, Baudelaire\_37, Bromden\_33, Chaser\_31, Douge\_31,

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

- DyoEdafos\_32,

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

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

Start 5:

- Found in 4 of 6 ( 66.7% ) of genes in pham
- Manual Annotations of this start: 1 of 5
- Called 25.0% of time when present
- Phage (with cluster) where this start called: DyoEdafos\_32 (L4),

Start 6:

- Found in 6 of 6 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 4 of 5
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Aegeus\_37 (L5), Baudelaire\_37 (L5), Bromden\_33 (L4), Chaser\_31 (L4), Douge\_31 (L4),

## Summary by clusters:

There are 2 clusters represented in this pham: L4, L5,

Info for manual annotations of cluster L4:

- Start number 5 was manually annotated 1 time for cluster L4.
- Start number 6 was manually annotated 2 times for cluster L4.

Info for manual annotations of cluster L5:

- Start number 6 was manually annotated 2 times for cluster L5.

## Gene Information:

Gene: Aegeus\_37 Start: 32192, Stop: 31872, Start Num: 6

Candidate Starts for Aegeus\_37:

(4, 32210), (Start: 6 @32192 has 4 MA's), (8, 32132), (13, 31955), (16, 31928),

Gene: Baudelaire\_37 Start: 32192, Stop: 31872, Start Num: 6

Candidate Starts for Baudelaire\_37:

(4, 32210), (Start: 6 @32192 has 4 MA's), (8, 32132), (13, 31955), (16, 31928),

Gene: Bromden\_33 Start: 28910, Stop: 28590, Start Num: 6

Candidate Starts for Bromden\_33:

(Start: 5 @28919 has 1 MA's), (Start: 6 @28910 has 4 MA's), (7, 28877), (8, 28850), (9, 28829), (10, 28781), (11, 28742), (12, 28673), (14, 28658), (15, 28646),

Gene: Chaser\_31 Start: 28311, Stop: 27988, Start Num: 6

Candidate Starts for Chaser\_31:

(1, 28401), (2, 28362), (Start: 5 @28320 has 1 MA's), (Start: 6 @28311 has 4 MA's), (8, 28251), (9, 28230), (10, 28182), (11, 28143), (12, 28071),

Gene: Douge\_31 Start: 28249, Stop: 27926, Start Num: 6

Candidate Starts for Douge\_31:

(1, 28339), (2, 28300), (Start: 5 @28258 has 1 MA's), (Start: 6 @28249 has 4 MA's), (7, 28216), (8, 28189), (9, 28168), (10, 28120), (11, 28081), (12, 28009),

Gene: DyoEdafos\_32 Start: 28455, Stop: 28126, Start Num: 5

Candidate Starts for DyoEdafos\_32:

(1, 28536), (3, 28470), (Start: 5 @28455 has 1 MA's), (Start: 6 @28446 has 4 MA's), (7, 28413), (8, 28386), (9, 28365), (10, 28317), (11, 28278), (12, 28209), (14, 28194), (15, 28182),