



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 88204 Report

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

Pham number 88204 has 7 members, 1 are drafts.

Phages represented in each track:

- Track 1 : EhyElimayoE\_127, Kradal\_126, Satis\_126
- Track 2 : JustBecause\_124
- Track 3 : Nirvana\_137
- Track 4 : Kela\_125
- Track 5 : Frankenweenie\_136

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

The start number called the most often in the published annotations is 3, it was called in 5 of the 6 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- EhyElimayoE\_127, Frankenweenie\_136, JustBecause\_124, Kradal\_126, Nirvana\_137, Satis\_126,

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

- Kela\_125,

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

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

Start 3:

- Found in 7 of 7 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 5 of 6
- Called 85.7% of time when present
- Phage (with cluster) where this start called: EhyElimayoE\_127 (BM), Frankenweenie\_136 (BM), JustBecause\_124 (BM), Kradal\_126 (BM), Nirvana\_137 (BM), Satis\_126 (BM),

Start 4:

- Found in 2 of 7 ( 28.6% ) of genes in pham
- Manual Annotations of this start: 1 of 6

- Called 50.0% of time when present
- Phage (with cluster) where this start called: Kela\_125 (BM),

### **Summary by clusters:**

There is one cluster represented in this pham: BM

Info for manual annotations of cluster BM:

- Start number 3 was manually annotated 5 times for cluster BM.
- Start number 4 was manually annotated 1 time for cluster BM.

### **Gene Information:**

Gene: EhyElimayoE\_127 Start: 82790, Stop: 82452, Start Num: 3

Candidate Starts for EhyElimayoE\_127:

(Start: 3 @82790 has 5 MA's), (8, 82748), (14, 82652), (16, 82628), (17, 82550), (19, 82523),

Gene: Frankenweenie\_136 Start: 87853, Stop: 87527, Start Num: 3

Candidate Starts for Frankenweenie\_136:

(Start: 3 @87853 has 5 MA's), (5, 87829), (7, 87811), (9, 87805), (11, 87781), (18, 87595), (19, 87592),

Gene: JustBecause\_124 Start: 81982, Stop: 81644, Start Num: 3

Candidate Starts for JustBecause\_124:

(1, 82183), (2, 82057), (Start: 3 @81982 has 5 MA's), (Start: 4 @81976 has 1 MA's), (6, 81961), (10, 81922), (12, 81892),

Gene: Kela\_125 Start: 81856, Stop: 81524, Start Num: 4

Candidate Starts for Kela\_125:

(1, 82063), (2, 81937), (Start: 3 @81862 has 5 MA's), (Start: 4 @81856 has 1 MA's), (6, 81841), (10, 81802), (12, 81772),

Gene: Kradal\_126 Start: 82787, Stop: 82449, Start Num: 3

Candidate Starts for Kradal\_126:

(Start: 3 @82787 has 5 MA's), (8, 82745), (14, 82649), (16, 82625), (17, 82547), (19, 82520),

Gene: Nirvana\_137 Start: 86259, Stop: 85918, Start Num: 3

Candidate Starts for Nirvana\_137:

(1, 86460), (2, 86334), (Start: 3 @86259 has 5 MA's), (13, 86127), (15, 86115), (16, 86097), (20, 85989),

Gene: Satis\_126 Start: 82783, Stop: 82445, Start Num: 3

Candidate Starts for Satis\_126:

(Start: 3 @82783 has 5 MA's), (8, 82741), (14, 82645), (16, 82621), (17, 82543), (19, 82516),