



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 168450 Report

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

Pham number 168450 has 27 members, 3 are drafts.

Phages represented in each track:

- Track 1 : DumpTruck\_62, Xenia2\_57
- Track 2 : Ranch\_63, Erutan\_63, GretelLyn\_63, Zany\_61, ParvusTarda\_62, Sadboi\_64, Sampudon\_63, Yikes\_65, Patos\_67, NorManre\_67, Lambo\_61, Fulcrum\_63, OtterstedtS21\_63, Jalebi\_62, GOATification\_63, BirthdayBoy\_65, Gibbin\_65
- Track 3 : LuckyLeo\_60
- Track 4 : Alyssamiracle\_66, Genamy16\_66, NovaSharks\_65, Rumi\_64
- Track 5 : DaviePasture\_64
- Track 6 : Wojtek\_59
- Track 7 : Alephilan\_64

### ***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 24 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alyssamiracle\_66, BirthdayBoy\_65, DaviePasture\_64, DumpTruck\_62, Erutan\_63, Fulcrum\_63, GOATification\_63, Genamy16\_66, Gibbin\_65, GretelLyn\_63, Jalebi\_62, Lambo\_61, LuckyLeo\_60, NorManre\_67, NovaSharks\_65, OtterstedtS21\_63, ParvusTarda\_62, Patos\_67, Ranch\_63, Rumi\_64, Sadboi\_64, Sampudon\_63, Wojtek\_59, Xenia2\_57, Yikes\_65, Zany\_61,

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

- Alephilan\_64,

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

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

Start 1:

- Found in 27 of 27 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 24 of 24

- Called 96.3% of time when present
- Phage (with cluster) where this start called: Alyssamiracle\_66 (DV), BirthdayBoy\_65 (DV), DaviePasture\_64 (DV), DumpTruck\_62 (DV), Erutan\_63 (DV), Fulcrum\_63 (DV), GOATification\_63 (DV), Genamy16\_66 (DV), Gibbin\_65 (DV), GretelLyn\_63 (DV), Jalebi\_62 (DV), Lambo\_61 (DV), LuckyLeo\_60 (DV), NorManre\_67 (DV), NovaSharks\_65 (DV), OtterstedtS21\_63 (DV), ParvusTarda\_62 (DV), Patos\_67 (DV), Ranch\_63 (DV), Rumi\_64 (DV), Sadboi\_64 (DV), Sampudon\_63 (DV), Wojtek\_59 (DV), Xenia2\_57 (DV), Yikes\_65 (DV), Zany\_61 (DV),

Start 3:

- Found in 6 of 27 ( 22.2% ) of genes in pham
- No Manual Annotations of this start.
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Alephilan\_64 (DV),

### Summary by clusters:

There is one cluster represented in this pham: DV

Info for manual annotations of cluster DV:

- Start number 1 was manually annotated 24 times for cluster DV.

### **Gene Information:**

Gene: Alephilan\_64 Start: 43085, Stop: 43213, Start Num: 3

Candidate Starts for Alephilan\_64:

(Start: 1 @43052 has 24 MA's), (3, 43085), (4, 43088), (5, 43169),

Gene: Alyssamiracle\_66 Start: 42158, Stop: 42319, Start Num: 1

Candidate Starts for Alyssamiracle\_66:

(Start: 1 @42158 has 24 MA's), (3, 42191), (4, 42194),

Gene: BirthdayBoy\_65 Start: 43470, Stop: 43631, Start Num: 1

Candidate Starts for BirthdayBoy\_65:

(Start: 1 @43470 has 24 MA's), (4, 43506),

Gene: DaviePasture\_64 Start: 43078, Stop: 43239, Start Num: 1

Candidate Starts for DaviePasture\_64:

(Start: 1 @43078 has 24 MA's), (3, 43111), (4, 43114), (5, 43195),

Gene: DumpTruck\_62 Start: 41789, Stop: 41950, Start Num: 1

Candidate Starts for DumpTruck\_62:

(Start: 1 @41789 has 24 MA's), (4, 41825),

Gene: Erutan\_63 Start: 42750, Stop: 42911, Start Num: 1

Candidate Starts for Erutan\_63:

(Start: 1 @42750 has 24 MA's), (4, 42786),

Gene: Fulcrum\_63 Start: 42766, Stop: 42927, Start Num: 1

Candidate Starts for Fulcrum\_63:

(Start: 1 @42766 has 24 MA's), (4, 42802),

Gene: GOATification\_63 Start: 42766, Stop: 42927, Start Num: 1  
Candidate Starts for GOATification\_63:  
(Start: 1 @42766 has 24 MA's), (4, 42802),

Gene: Genamy16\_66 Start: 42144, Stop: 42305, Start Num: 1  
Candidate Starts for Genamy16\_66:  
(Start: 1 @42144 has 24 MA's), (3, 42177), (4, 42180),

Gene: Gibbin\_65 Start: 43575, Stop: 43736, Start Num: 1  
Candidate Starts for Gibbin\_65:  
(Start: 1 @43575 has 24 MA's), (4, 43611),

Gene: Gretellyn\_63 Start: 43622, Stop: 43783, Start Num: 1  
Candidate Starts for Gretellyn\_63:  
(Start: 1 @43622 has 24 MA's), (4, 43658),

Gene: Jalebi\_62 Start: 43967, Stop: 44128, Start Num: 1  
Candidate Starts for Jalebi\_62:  
(Start: 1 @43967 has 24 MA's), (4, 44003),

Gene: Lambo\_61 Start: 42573, Stop: 42734, Start Num: 1  
Candidate Starts for Lambo\_61:  
(Start: 1 @42573 has 24 MA's), (4, 42609),

Gene: LuckyLeo\_60 Start: 42383, Stop: 42544, Start Num: 1  
Candidate Starts for LuckyLeo\_60:  
(Start: 1 @42383 has 24 MA's), (2, 42404), (5, 42500),

Gene: NorManre\_67 Start: 43967, Stop: 44128, Start Num: 1  
Candidate Starts for NorManre\_67:  
(Start: 1 @43967 has 24 MA's), (4, 44003),

Gene: NovaSharks\_65 Start: 41735, Stop: 41896, Start Num: 1  
Candidate Starts for NovaSharks\_65:  
(Start: 1 @41735 has 24 MA's), (3, 41768), (4, 41771),

Gene: OtterstedtS21\_63 Start: 42909, Stop: 43070, Start Num: 1  
Candidate Starts for OtterstedtS21\_63:  
(Start: 1 @42909 has 24 MA's), (4, 42945),

Gene: ParvusTarda\_62 Start: 42284, Stop: 42445, Start Num: 1  
Candidate Starts for ParvusTarda\_62:  
(Start: 1 @42284 has 24 MA's), (4, 42320),

Gene: Patos\_67 Start: 43966, Stop: 44127, Start Num: 1  
Candidate Starts for Patos\_67:  
(Start: 1 @43966 has 24 MA's), (4, 44002),

Gene: Ranch\_63 Start: 41741, Stop: 41902, Start Num: 1  
Candidate Starts for Ranch\_63:  
(Start: 1 @41741 has 24 MA's), (4, 41777),

Gene: Rumi\_64 Start: 41432, Stop: 41593, Start Num: 1  
Candidate Starts for Rumi\_64:  
(Start: 1 @41432 has 24 MA's), (3, 41465), (4, 41468),

Gene: Sadboi\_64 Start: 43623, Stop: 43784, Start Num: 1  
Candidate Starts for Sadboi\_64:  
(Start: 1 @43623 has 24 MA's), (4, 43659),

Gene: Sampudon\_63 Start: 43967, Stop: 44128, Start Num: 1  
Candidate Starts for Sampudon\_63:  
(Start: 1 @43967 has 24 MA's), (4, 44003),

Gene: Wojtek\_59 Start: 42007, Stop: 42168, Start Num: 1  
Candidate Starts for Wojtek\_59:  
(Start: 1 @42007 has 24 MA's), (4, 42043),

Gene: Xenia2\_57 Start: 41323, Stop: 41484, Start Num: 1  
Candidate Starts for Xenia2\_57:  
(Start: 1 @41323 has 24 MA's), (4, 41359),

Gene: Yikes\_65 Start: 44061, Stop: 44222, Start Num: 1  
Candidate Starts for Yikes\_65:  
(Start: 1 @44061 has 24 MA's), (4, 44097),

Gene: Zany\_61 Start: 43470, Stop: 43631, Start Num: 1  
Candidate Starts for Zany\_61:  
(Start: 1 @43470 has 24 MA's), (4, 43506),