



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 311859 Report

This analysis was run 06/27/26 on database version 652.

Pham number 311859 has 32 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Lambo\_97, ParvusTarda\_97, Erutan\_95, Ranch\_100, Rumi\_94
- Track 2 : Lila22\_96, Patos\_101, Astralis\_93, Tillicus\_89, Genamy16\_96, Gretellyn\_96, DaviePasture\_97, Fulcrum\_96, Yikes\_97, DoobyDoo\_96, Mima20\_95, BirthdayBoy\_98, RazorC\_93, GOATification\_96, OtterstedtS21\_97, LavAbarElk\_96, Sadboi\_96, NorManre\_101, NovaSharks\_95, Gibbin\_98, Charminar\_92, Riduram\_92, MoiGyank\_99, Alyssamiracle\_96
- Track 3 : Sampudon\_98
- Track 4 : Apeppi\_93, LuckyLeo\_95

### ***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 26 of the 31 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alyssamiracle\_96, Apeppi\_93, Astralis\_93, BirthdayBoy\_98, Charminar\_92, DaviePasture\_97, DoobyDoo\_96, Fulcrum\_96, GOATification\_96, Genamy16\_96, Gibbin\_98, Gretellyn\_96, LavAbarElk\_96, Lila22\_96, LuckyLeo\_95, Mima20\_95, MoiGyank\_99, NorManre\_101, NovaSharks\_95, OtterstedtS21\_97, Patos\_101, RazorC\_93, Riduram\_92, Sadboi\_96, Sampudon\_98, Tillicus\_89, Yikes\_97,

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

- Erutan\_95, Lambo\_97, ParvusTarda\_97, Ranch\_100, Rumi\_94,

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

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

Start 1:

- Found in 32 of 32 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 26 of 31
- Called 84.4% of time when present

- Phage (with cluster) where this start called: Alyssamiracle\_96 (DV), Apeppi\_93 (DV), Astralis\_93 (DV), BirthdayBoy\_98 (DV), Charminar\_92 (DV), DaviePasture\_97 (DV), DoobyDoo\_96 (DV), Fulcrum\_96 (DV), GOATification\_96 (DV), Genamy16\_96 (DV), Gibbin\_98 (DV), GretelLyn\_96 (DV), LavAbarElk\_96 (DV), Lila22\_96 (DV), LuckyLeo\_95 (DV), Mima20\_95 (DV), MoiGyank\_99 (DV), NorManre\_101 (DV), NovaSharks\_95 (DV), OtterstedtS21\_97 (DV), Patos\_101 (DV), RazorC\_93 (DV), Riduram\_92 (DV), Sadboi\_96 (DV), Sampudon\_98 (DV), Tillicus\_89 (DV), Yikes\_97 (DV),

Start 2:

- Found in 30 of 32 ( 93.8% ) of genes in pham
- Manual Annotations of this start: 5 of 31
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Erutan\_95 (DV), Lambo\_97 (DV), ParvusTarda\_97 (DV), Ranch\_100 (DV), Rumi\_94 (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 26 times for cluster DV.
- Start number 2 was manually annotated 5 times for cluster DV.

### Gene Information:

Gene: Alyssamiracle\_96 Start: 64897, Stop: 65112, Start Num: 1

Candidate Starts for Alyssamiracle\_96:

(Start: 1 @64897 has 26 MA's), (Start: 2 @64906 has 5 MA's), (3, 64930), (5, 65050),

Gene: Apeppi\_93 Start: 66609, Stop: 66824, Start Num: 1

Candidate Starts for Apeppi\_93:

(Start: 1 @66609 has 26 MA's), (3, 66642), (5, 66762),

Gene: Astralis\_93 Start: 64424, Stop: 64639, Start Num: 1

Candidate Starts for Astralis\_93:

(Start: 1 @64424 has 26 MA's), (Start: 2 @64433 has 5 MA's), (3, 64457), (5, 64577),

Gene: BirthdayBoy\_98 Start: 67011, Stop: 67220, Start Num: 1

Candidate Starts for BirthdayBoy\_98:

(Start: 1 @67011 has 26 MA's), (Start: 2 @67020 has 5 MA's), (3, 67044), (5, 67158),

Gene: Charminar\_92 Start: 64216, Stop: 64431, Start Num: 1

Candidate Starts for Charminar\_92:

(Start: 1 @64216 has 26 MA's), (Start: 2 @64225 has 5 MA's), (3, 64249), (5, 64369),

Gene: DaviePasture\_97 Start: 66985, Stop: 67200, Start Num: 1

Candidate Starts for DaviePasture\_97:

(Start: 1 @66985 has 26 MA's), (Start: 2 @66994 has 5 MA's), (3, 67018), (5, 67138),

Gene: DoobyDoo\_96 Start: 65719, Stop: 65934, Start Num: 1

Candidate Starts for DoobyDoo\_96:

(Start: 1 @65719 has 26 MA's), (Start: 2 @65728 has 5 MA's), (3, 65752), (5, 65872),

Gene: Erutan\_95 Start: 66339, Stop: 66545, Start Num: 2

Candidate Starts for Erutan\_95:

(Start: 1 @66330 has 26 MA's), (Start: 2 @66339 has 5 MA's), (3, 66363), (5, 66483),

Gene: Fulcrum\_96 Start: 66978, Stop: 67193, Start Num: 1

Candidate Starts for Fulcrum\_96:

(Start: 1 @66978 has 26 MA's), (Start: 2 @66987 has 5 MA's), (3, 67011), (5, 67131),

Gene: GOATification\_96 Start: 66978, Stop: 67193, Start Num: 1

Candidate Starts for GOATification\_96:

(Start: 1 @66978 has 26 MA's), (Start: 2 @66987 has 5 MA's), (3, 67011), (5, 67131),

Gene: Genamy16\_96 Start: 64946, Stop: 65161, Start Num: 1

Candidate Starts for Genamy16\_96:

(Start: 1 @64946 has 26 MA's), (Start: 2 @64955 has 5 MA's), (3, 64979), (5, 65099),

Gene: Gibbin\_98 Start: 67155, Stop: 67370, Start Num: 1

Candidate Starts for Gibbin\_98:

(Start: 1 @67155 has 26 MA's), (Start: 2 @67164 has 5 MA's), (3, 67188), (5, 67308),

Gene: Gretellyn\_96 Start: 66982, Stop: 67191, Start Num: 1

Candidate Starts for Gretellyn\_96:

(Start: 1 @66982 has 26 MA's), (Start: 2 @66991 has 5 MA's), (3, 67015), (5, 67129),

Gene: Lambo\_97 Start: 67194, Stop: 67400, Start Num: 2

Candidate Starts for Lambo\_97:

(Start: 1 @67185 has 26 MA's), (Start: 2 @67194 has 5 MA's), (3, 67218), (5, 67338),

Gene: LavAbarElk\_96 Start: 66101, Stop: 66310, Start Num: 1

Candidate Starts for LavAbarElk\_96:

(Start: 1 @66101 has 26 MA's), (Start: 2 @66110 has 5 MA's), (3, 66134), (5, 66248),

Gene: Lila22\_96 Start: 66955, Stop: 67164, Start Num: 1

Candidate Starts for Lila22\_96:

(Start: 1 @66955 has 26 MA's), (Start: 2 @66964 has 5 MA's), (3, 66988), (5, 67102),

Gene: LuckyLeo\_95 Start: 66609, Stop: 66824, Start Num: 1

Candidate Starts for LuckyLeo\_95:

(Start: 1 @66609 has 26 MA's), (3, 66642), (5, 66762),

Gene: Mima20\_95 Start: 66712, Stop: 66927, Start Num: 1

Candidate Starts for Mima20\_95:

(Start: 1 @66712 has 26 MA's), (Start: 2 @66721 has 5 MA's), (3, 66745), (5, 66865),

Gene: MoiGyank\_99 Start: 67191, Stop: 67406, Start Num: 1

Candidate Starts for MoiGyank\_99:

(Start: 1 @67191 has 26 MA's), (Start: 2 @67200 has 5 MA's), (3, 67224), (5, 67344),

Gene: NorManre\_101 Start: 68221, Stop: 68436, Start Num: 1

Candidate Starts for NorManre\_101:

(Start: 1 @68221 has 26 MA's), (Start: 2 @68230 has 5 MA's), (3, 68254), (5, 68374),

Gene: NovaSharks\_95 Start: 64646, Stop: 64861, Start Num: 1

Candidate Starts for NovaSharks\_95:

(Start: 1 @64646 has 26 MA's), (Start: 2 @64655 has 5 MA's), (3, 64679), (5, 64799),

Gene: OtterstedtS21\_97 Start: 67066, Stop: 67275, Start Num: 1

Candidate Starts for OtterstedtS21\_97:

(Start: 1 @67066 has 26 MA's), (Start: 2 @67075 has 5 MA's), (3, 67099), (5, 67213),

Gene: ParvusTarda\_97 Start: 66660, Stop: 66866, Start Num: 2

Candidate Starts for ParvusTarda\_97:

(Start: 1 @66651 has 26 MA's), (Start: 2 @66660 has 5 MA's), (3, 66684), (5, 66804),

Gene: Patos\_101 Start: 68220, Stop: 68435, Start Num: 1

Candidate Starts for Patos\_101:

(Start: 1 @68220 has 26 MA's), (Start: 2 @68229 has 5 MA's), (3, 68253), (5, 68373),

Gene: Ranch\_100 Start: 66276, Stop: 66479, Start Num: 2

Candidate Starts for Ranch\_100:

(Start: 1 @66267 has 26 MA's), (Start: 2 @66276 has 5 MA's), (3, 66300), (5, 66417),

Gene: RazorC\_93 Start: 64579, Stop: 64794, Start Num: 1

Candidate Starts for RazorC\_93:

(Start: 1 @64579 has 26 MA's), (Start: 2 @64588 has 5 MA's), (3, 64612), (5, 64732),

Gene: Riduram\_92 Start: 64286, Stop: 64501, Start Num: 1

Candidate Starts for Riduram\_92:

(Start: 1 @64286 has 26 MA's), (Start: 2 @64295 has 5 MA's), (3, 64319), (5, 64439),

Gene: Rumi\_94 Start: 64250, Stop: 64456, Start Num: 2

Candidate Starts for Rumi\_94:

(Start: 1 @64241 has 26 MA's), (Start: 2 @64250 has 5 MA's), (3, 64274), (5, 64394),

Gene: Sadboi\_96 Start: 66862, Stop: 67071, Start Num: 1

Candidate Starts for Sadboi\_96:

(Start: 1 @66862 has 26 MA's), (Start: 2 @66871 has 5 MA's), (3, 66895), (5, 67009),

Gene: Sampudon\_98 Start: 67877, Stop: 68086, Start Num: 1

Candidate Starts for Sampudon\_98:

(Start: 1 @67877 has 26 MA's), (Start: 2 @67886 has 5 MA's), (3, 67910), (4, 67943), (5, 68024),

Gene: Tillicus\_89 Start: 65965, Stop: 66180, Start Num: 1

Candidate Starts for Tillicus\_89:

(Start: 1 @65965 has 26 MA's), (Start: 2 @65974 has 5 MA's), (3, 65998), (5, 66118),

Gene: Yikes\_97 Start: 67526, Stop: 67741, Start Num: 1

Candidate Starts for Yikes\_97:

(Start: 1 @67526 has 26 MA's), (Start: 2 @67535 has 5 MA's), (3, 67559), (5, 67679),