



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 291386 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291386 has 32 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Jalebi\_8, Lambo\_7, Sampudon\_8
- Track 2 : Riduram\_5
- Track 3 : Rumi\_5, Stormer\_5, Astralis\_5, Genamy16\_5, Alyssamiracle\_5, NovaSharks\_5, Charminar\_4, RazorC\_5, Avian\_5, Jamemuya19\_5
- Track 4 : Zany\_7, MoiGyank\_9, DaviePasture\_6, Yikes\_7, LavAbarElk\_5, Lila22\_7, DoobyDoo\_6, ParvusTarda\_6, Gibbin\_7, Rota\_6
- Track 5 : Alephilan\_6, BirthdayBoy\_7
- Track 6 : GOATification\_8, Rukungu\_6, Fulcrum\_8
- Track 7 : OtterstedtS21\_6, Mima20\_6
- Track 8 : Erutan\_7

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

Genes that call this "Most Annotated" start:

- Alephilan\_6, Alyssamiracle\_5, Astralis\_5, Avian\_5, BirthdayBoy\_7, Charminar\_4, DaviePasture\_6, DoobyDoo\_6, Erutan\_7, Fulcrum\_8, GOATification\_8, Genamy16\_5, Gibbin\_7, Jalebi\_8, Jamemuya19\_5, Lambo\_7, LavAbarElk\_5, Lila22\_7, Mima20\_6, MoiGyank\_9, NovaSharks\_5, OtterstedtS21\_6, ParvusTarda\_6, RazorC\_5, Rota\_6, Rukungu\_6, Rumi\_5, Sampudon\_8, Stormer\_5, Yikes\_7, Zany\_7,

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

- Riduram\_5,

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

- 

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

Start 1:

- Found in 32 of 32 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 26 of 26

- Called 96.9% of time when present
- Phage (with cluster) where this start called: Alephilan\_6 (DV), Alyssamiracle\_5 (DV), Astralis\_5 (DV), Avian\_5 (DV), BirthdayBoy\_7 (DV), Charminar\_4 (DV), DaviePasture\_6 (DV), DoobyDoo\_6 (DV), Erutan\_7 (DV), Fulcrum\_8 (DV), GOATification\_8 (DV), Genamy16\_5 (DV), Gibbin\_7 (DV), Jalebi\_8 (DV), Jamemuya19\_5 (DV), Lambo\_7 (DV), LavAbarElk\_5 (DV), Lila22\_7 (DV), Mima20\_6 (DV), MoiGyank\_9 (DV), NovaSharks\_5 (DV), OtterstedtS21\_6 (DV), ParvusTarda\_6 (DV), RazorC\_5 (DV), Rota\_6 (DV), Rukungu\_6 (DV), Rumi\_5 (DV), Sampudon\_8 (DV), Stormer\_5 (DV), Yikes\_7 (DV), Zany\_7 (DV),

Start 2:

- Found in 11 of 32 ( 34.4% ) of genes in pham
- No Manual Annotations of this start.
- Called 9.1% of time when present
- Phage (with cluster) where this start called: Riduram\_5 (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.

### **Gene Information:**

Gene: Alephilan\_6 Start: 6043, Stop: 6411, Start Num: 1

Candidate Starts for Alephilan\_6:

(Start: 1 @6043 has 26 MA's), (4, 6172), (6, 6349),

Gene: Alyssamiracle\_5 Start: 3782, Stop: 4150, Start Num: 1

Candidate Starts for Alyssamiracle\_5:

(Start: 1 @3782 has 26 MA's), (2, 3806), (3, 3872), (6, 4088), (7, 4124),

Gene: Astralis\_5 Start: 3782, Stop: 4150, Start Num: 1

Candidate Starts for Astralis\_5:

(Start: 1 @3782 has 26 MA's), (2, 3806), (3, 3872), (6, 4088), (7, 4124),

Gene: Avian\_5 Start: 3782, Stop: 4150, Start Num: 1

Candidate Starts for Avian\_5:

(Start: 1 @3782 has 26 MA's), (2, 3806), (3, 3872), (6, 4088), (7, 4124),

Gene: BirthdayBoy\_7 Start: 6222, Stop: 6590, Start Num: 1

Candidate Starts for BirthdayBoy\_7:

(Start: 1 @6222 has 26 MA's), (4, 6351), (6, 6528),

Gene: Charminar\_4 Start: 3782, Stop: 4150, Start Num: 1

Candidate Starts for Charminar\_4:

(Start: 1 @3782 has 26 MA's), (2, 3806), (3, 3872), (6, 4088), (7, 4124),

Gene: DaviePasture\_6 Start: 6063, Stop: 6431, Start Num: 1

Candidate Starts for DaviePasture\_6:

(Start: 1 @6063 has 26 MA's), (3, 6153), (6, 6369), (7, 6405),

Gene: DoobyDoo\_6 Start: 5747, Stop: 6112, Start Num: 1

Candidate Starts for DoobyDoo\_6:

(Start: 1 @5747 has 26 MA's), (3, 5837), (6, 6050), (7, 6086),

Gene: Erutan\_7 Start: 6322, Stop: 6690, Start Num: 1

Candidate Starts for Erutan\_7:

(Start: 1 @6322 has 26 MA's), (6, 6628), (7, 6664),

Gene: Fulcrum\_8 Start: 6945, Stop: 7310, Start Num: 1

Candidate Starts for Fulcrum\_8:

(Start: 1 @6945 has 26 MA's), (3, 7035), (5, 7203), (6, 7248), (7, 7284),

Gene: GOATification\_8 Start: 6945, Stop: 7310, Start Num: 1

Candidate Starts for GOATification\_8:

(Start: 1 @6945 has 26 MA's), (3, 7035), (5, 7203), (6, 7248), (7, 7284),

Gene: Genamy16\_5 Start: 3782, Stop: 4150, Start Num: 1

Candidate Starts for Genamy16\_5:

(Start: 1 @3782 has 26 MA's), (2, 3806), (3, 3872), (6, 4088), (7, 4124),

Gene: Gibbin\_7 Start: 6323, Stop: 6685, Start Num: 1

Candidate Starts for Gibbin\_7:

(Start: 1 @6323 has 26 MA's), (3, 6413), (6, 6623), (7, 6659),

Gene: Jalebi\_8 Start: 7452, Stop: 7820, Start Num: 1

Candidate Starts for Jalebi\_8:

(Start: 1 @7452 has 26 MA's), (3, 7542), (6, 7758),

Gene: Jamemuya19\_5 Start: 3782, Stop: 4150, Start Num: 1

Candidate Starts for Jamemuya19\_5:

(Start: 1 @3782 has 26 MA's), (2, 3806), (3, 3872), (6, 4088), (7, 4124),

Gene: Lambo\_7 Start: 6946, Stop: 7314, Start Num: 1

Candidate Starts for Lambo\_7:

(Start: 1 @6946 has 26 MA's), (3, 7036), (6, 7252),

Gene: LavAbarElk\_5 Start: 5388, Stop: 5756, Start Num: 1

Candidate Starts for LavAbarElk\_5:

(Start: 1 @5388 has 26 MA's), (3, 5478), (6, 5694), (7, 5730),

Gene: Lila22\_7 Start: 6163, Stop: 6525, Start Num: 1

Candidate Starts for Lila22\_7:

(Start: 1 @6163 has 26 MA's), (3, 6253), (6, 6463), (7, 6499),

Gene: Mima20\_6 Start: 5947, Stop: 6312, Start Num: 1

Candidate Starts for Mima20\_6:

(Start: 1 @5947 has 26 MA's), (3, 6037), (5, 6205), (6, 6250),

Gene: MoiGyank\_9 Start: 7322, Stop: 7690, Start Num: 1

Candidate Starts for MoiGyank\_9:

(Start: 1 @7322 has 26 MA's), (3, 7412), (6, 7628), (7, 7664),

Gene: NovaSharks\_5 Start: 3782, Stop: 4150, Start Num: 1  
Candidate Starts for NovaSharks\_5:  
(Start: 1 @3782 has 26 MA's), (2, 3806), (3, 3872), (6, 4088), (7, 4124),

Gene: OtterstedtS21\_6 Start: 5942, Stop: 6310, Start Num: 1  
Candidate Starts for OtterstedtS21\_6:  
(Start: 1 @5942 has 26 MA's), (3, 6032), (5, 6203), (6, 6248),

Gene: ParvusTarda\_6 Start: 5340, Stop: 5705, Start Num: 1  
Candidate Starts for ParvusTarda\_6:  
(Start: 1 @5340 has 26 MA's), (3, 5430), (6, 5643), (7, 5679),

Gene: RazorC\_5 Start: 3782, Stop: 4150, Start Num: 1  
Candidate Starts for RazorC\_5:  
(Start: 1 @3782 has 26 MA's), (2, 3806), (3, 3872), (6, 4088), (7, 4124),

Gene: Riduram\_5 Start: 3806, Stop: 4150, Start Num: 2  
Candidate Starts for Riduram\_5:  
(Start: 1 @3782 has 26 MA's), (2, 3806), (3, 3872), (6, 4088), (7, 4124),

Gene: Rota\_6 Start: 5754, Stop: 6116, Start Num: 1  
Candidate Starts for Rota\_6:  
(Start: 1 @5754 has 26 MA's), (3, 5844), (6, 6054), (7, 6090),

Gene: Rukungu\_6 Start: 6489, Stop: 6854, Start Num: 1  
Candidate Starts for Rukungu\_6:  
(Start: 1 @6489 has 26 MA's), (3, 6579), (5, 6747), (6, 6792), (7, 6828),

Gene: Rumi\_5 Start: 3782, Stop: 4150, Start Num: 1  
Candidate Starts for Rumi\_5:  
(Start: 1 @3782 has 26 MA's), (2, 3806), (3, 3872), (6, 4088), (7, 4124),

Gene: Sampudon\_8 Start: 7452, Stop: 7820, Start Num: 1  
Candidate Starts for Sampudon\_8:  
(Start: 1 @7452 has 26 MA's), (3, 7542), (6, 7758),

Gene: Stormer\_5 Start: 3782, Stop: 4150, Start Num: 1  
Candidate Starts for Stormer\_5:  
(Start: 1 @3782 has 26 MA's), (2, 3806), (3, 3872), (6, 4088), (7, 4124),

Gene: Yikes\_7 Start: 6855, Stop: 7223, Start Num: 1  
Candidate Starts for Yikes\_7:  
(Start: 1 @6855 has 26 MA's), (3, 6945), (6, 7161), (7, 7197),

Gene: Zany\_7 Start: 6718, Stop: 7083, Start Num: 1  
Candidate Starts for Zany\_7:  
(Start: 1 @6718 has 26 MA's), (3, 6808), (6, 7021), (7, 7057),