



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 180671 Report

This analysis was run 11/02/24 on database version 579.

Pham number 180671 has 35 members, 6 are drafts.

Phages represented in each track:

- Track 1 : DumpTruck\_63
- Track 2 : GretellLyn\_64, Gibbin\_66, Erutan\_64, Mima20\_65, ParvusTarda\_63, Sadboi\_65, Lila22\_65, Fulcrum\_64, Alephilan\_65, OtterstedtS21\_64, GOATification\_64, BirthdayBoy\_66
- Track 3 : LuckyLeo\_61, Ranch\_64, Patos\_68, Apeppi\_59, NorManre\_68
- Track 4 : DoobyDoo\_63, MoiGyank\_67, Sampudon\_64, Yikes\_66, Jalebi\_63
- Track 5 : NovaSharks\_66, Alyssamiracle\_67, Avian\_63, Jamemuya19\_64, Genamy16\_67, Rumi\_65
- Track 6 : Lambo\_62, Zany\_62, DaviePasture\_64
- Track 7 : Wojtek\_60
- Track 8 : Xenia2\_58
- Track 9 : Tillicus\_60

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

The start number called the most often in the published annotations is 2, it was called in 29 of the 29 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alephilan\_65, Alyssamiracle\_67, Apeppi\_59, Avian\_63, BirthdayBoy\_66, DaviePasture\_64, DoobyDoo\_63, DumpTruck\_63, Erutan\_64, Fulcrum\_64, GOATification\_64, Genamy16\_67, Gibbin\_66, GretellLyn\_64, Jalebi\_63, Jamemuya19\_64, Lambo\_62, Lila22\_65, LuckyLeo\_61, Mima20\_65, MoiGyank\_67, NorManre\_68, NovaSharks\_66, OtterstedtS21\_64, ParvusTarda\_63, Patos\_68, Ranch\_64, Rumi\_65, Sadboi\_65, Sampudon\_64, Tillicus\_60, Wojtek\_60, Xenia2\_58, Yikes\_66, Zany\_62,

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

- 

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

- 

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

## Start 2:

- Found in 35 of 35 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 29 of 29
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alephilan\_65 (DV), Alyssamiracle\_67 (DV), Apeppi\_59 (DV), Avian\_63 (DV), BirthdayBoy\_66 (DV), DaviePasture\_64 (DV), DoobyDoo\_63 (DV), DumpTruck\_63 (DV), Erutan\_64 (DV), Fulcrum\_64 (DV), GOATification\_64 (DV), Genamy16\_67 (DV), Gibbin\_66 (DV), GretelLyn\_64 (DV), Jalebi\_63 (DV), Jamemuya19\_64 (DV), Lambo\_62 (DV), Lila22\_65 (DV), LuckyLeo\_61 (DV), Mima20\_65 (DV), MoiGyank\_67 (DV), NorManre\_68 (DV), NovaSharks\_66 (DV), OtterstedtS21\_64 (DV), ParvusTarda\_63 (DV), Patos\_68 (DV), Ranch\_64 (DV), Rumi\_65 (DV), Sadboi\_65 (DV), Sampudon\_64 (DV), Tillicus\_60 (DV), Wojtek\_60 (DV), Xenia2\_58 (DV), Yikes\_66 (DV), Zany\_62 (DV),

## Summary by clusters:

There is one cluster represented in this pham: DV

Info for manual annotations of cluster DV:

- Start number 2 was manually annotated 29 times for cluster DV.

### **Gene Information:**

Gene: Alephilan\_65 Start: 43346, Stop: 43825, Start Num: 2

Candidate Starts for Alephilan\_65:

(Start: 2 @43346 has 29 MA's), (3, 43361), (5, 43418), (6, 43490), (7, 43526),

Gene: Alyssamiracle\_67 Start: 42452, Stop: 42931, Start Num: 2

Candidate Starts for Alyssamiracle\_67:

(Start: 2 @42452 has 29 MA's), (3, 42467), (5, 42524), (6, 42596), (7, 42632),

Gene: Apeppi\_59 Start: 42677, Stop: 43156, Start Num: 2

Candidate Starts for Apeppi\_59:

(Start: 2 @42677 has 29 MA's), (3, 42692), (5, 42749), (6, 42821), (7, 42857), (8, 43073),

Gene: Avian\_63 Start: 42180, Stop: 42659, Start Num: 2

Candidate Starts for Avian\_63:

(Start: 2 @42180 has 29 MA's), (3, 42195), (5, 42252), (6, 42324), (7, 42360),

Gene: BirthdayBoy\_66 Start: 43763, Stop: 44242, Start Num: 2

Candidate Starts for BirthdayBoy\_66:

(Start: 2 @43763 has 29 MA's), (3, 43778), (5, 43835), (6, 43907), (7, 43943),

Gene: DaviePasture\_64 Start: 43372, Stop: 43851, Start Num: 2

Candidate Starts for DaviePasture\_64:

(Start: 2 @43372 has 29 MA's), (3, 43387), (5, 43444), (6, 43516), (7, 43552),

Gene: DoobyDoo\_63 Start: 42393, Stop: 42872, Start Num: 2

Candidate Starts for DoobyDoo\_63:

(Start: 2 @42393 has 29 MA's), (3, 42408), (5, 42465), (6, 42537),

Gene: DumpTruck\_63 Start: 42082, Stop: 42579, Start Num: 2  
Candidate Starts for DumpTruck\_63:  
(Start: 2 @42082 has 29 MA's), (3, 42097), (4, 42103), (5, 42166), (6, 42238),

Gene: Erutan\_64 Start: 43043, Stop: 43522, Start Num: 2  
Candidate Starts for Erutan\_64:  
(Start: 2 @43043 has 29 MA's), (3, 43058), (5, 43115), (6, 43187), (7, 43223),

Gene: Fulcrum\_64 Start: 43059, Stop: 43538, Start Num: 2  
Candidate Starts for Fulcrum\_64:  
(Start: 2 @43059 has 29 MA's), (3, 43074), (5, 43131), (6, 43203), (7, 43239),

Gene: GOATification\_64 Start: 43059, Stop: 43538, Start Num: 2  
Candidate Starts for GOATification\_64:  
(Start: 2 @43059 has 29 MA's), (3, 43074), (5, 43131), (6, 43203), (7, 43239),

Gene: Genamy16\_67 Start: 42438, Stop: 42917, Start Num: 2  
Candidate Starts for Genamy16\_67:  
(Start: 2 @42438 has 29 MA's), (3, 42453), (5, 42510), (6, 42582), (7, 42618),

Gene: Gibbin\_66 Start: 43868, Stop: 44347, Start Num: 2  
Candidate Starts for Gibbin\_66:  
(Start: 2 @43868 has 29 MA's), (3, 43883), (5, 43940), (6, 44012), (7, 44048),

Gene: Gretellyn\_64 Start: 43915, Stop: 44394, Start Num: 2  
Candidate Starts for Gretellyn\_64:  
(Start: 2 @43915 has 29 MA's), (3, 43930), (5, 43987), (6, 44059), (7, 44095),

Gene: Jalebi\_63 Start: 44260, Stop: 44739, Start Num: 2  
Candidate Starts for Jalebi\_63:  
(Start: 2 @44260 has 29 MA's), (3, 44275), (5, 44332), (6, 44404),

Gene: Jamemuya19\_64 Start: 42043, Stop: 42522, Start Num: 2  
Candidate Starts for Jamemuya19\_64:  
(Start: 2 @42043 has 29 MA's), (3, 42058), (5, 42115), (6, 42187), (7, 42223),

Gene: Lambo\_62 Start: 42866, Stop: 43345, Start Num: 2  
Candidate Starts for Lambo\_62:  
(Start: 2 @42866 has 29 MA's), (3, 42881), (5, 42938), (6, 43010), (7, 43046),

Gene: Lila22\_65 Start: 43820, Stop: 44299, Start Num: 2  
Candidate Starts for Lila22\_65:  
(Start: 2 @43820 has 29 MA's), (3, 43835), (5, 43892), (6, 43964), (7, 44000),

Gene: LuckyLeo\_61 Start: 42677, Stop: 43156, Start Num: 2  
Candidate Starts for LuckyLeo\_61:  
(Start: 2 @42677 has 29 MA's), (3, 42692), (5, 42749), (6, 42821), (7, 42857), (8, 43073),

Gene: Mima20\_65 Start: 43423, Stop: 43902, Start Num: 2  
Candidate Starts for Mima20\_65:  
(Start: 2 @43423 has 29 MA's), (3, 43438), (5, 43495), (6, 43567), (7, 43603),

Gene: MoiGyank\_67 Start: 44196, Stop: 44675, Start Num: 2  
Candidate Starts for MoiGyank\_67:  
(Start: 2 @44196 has 29 MA's), (3, 44211), (5, 44268), (6, 44340),

Gene: NorManre\_68 Start: 44260, Stop: 44739, Start Num: 2  
Candidate Starts for NorManre\_68:  
(Start: 2 @44260 has 29 MA's), (3, 44275), (5, 44332), (6, 44404), (7, 44440), (8, 44656),

Gene: NovaSharks\_66 Start: 42029, Stop: 42508, Start Num: 2  
Candidate Starts for NovaSharks\_66:  
(Start: 2 @42029 has 29 MA's), (3, 42044), (5, 42101), (6, 42173), (7, 42209),

Gene: OtterstedtS21\_64 Start: 43202, Stop: 43681, Start Num: 2  
Candidate Starts for OtterstedtS21\_64:  
(Start: 2 @43202 has 29 MA's), (3, 43217), (5, 43274), (6, 43346), (7, 43382),

Gene: ParvusTarda\_63 Start: 42577, Stop: 43056, Start Num: 2  
Candidate Starts for ParvusTarda\_63:  
(Start: 2 @42577 has 29 MA's), (3, 42592), (5, 42649), (6, 42721), (7, 42757),

Gene: Patos\_68 Start: 44259, Stop: 44738, Start Num: 2  
Candidate Starts for Patos\_68:  
(Start: 2 @44259 has 29 MA's), (3, 44274), (5, 44331), (6, 44403), (7, 44439), (8, 44655),

Gene: Ranch\_64 Start: 42034, Stop: 42513, Start Num: 2  
Candidate Starts for Ranch\_64:  
(Start: 2 @42034 has 29 MA's), (3, 42049), (5, 42106), (6, 42178), (7, 42214), (8, 42430),

Gene: Rumi\_65 Start: 41726, Stop: 42205, Start Num: 2  
Candidate Starts for Rumi\_65:  
(Start: 2 @41726 has 29 MA's), (3, 41741), (5, 41798), (6, 41870), (7, 41906),

Gene: Sadboi\_65 Start: 43916, Stop: 44395, Start Num: 2  
Candidate Starts for Sadboi\_65:  
(Start: 2 @43916 has 29 MA's), (3, 43931), (5, 43988), (6, 44060), (7, 44096),

Gene: Sampudon\_64 Start: 44260, Stop: 44739, Start Num: 2  
Candidate Starts for Sampudon\_64:  
(Start: 2 @44260 has 29 MA's), (3, 44275), (5, 44332), (6, 44404),

Gene: Tillicus\_60 Start: 42618, Stop: 43097, Start Num: 2  
Candidate Starts for Tillicus\_60:  
(Start: 2 @42618 has 29 MA's), (3, 42633), (5, 42690), (6, 42762), (7, 42798), (8, 43014),

Gene: Wojtek\_60 Start: 42299, Stop: 42778, Start Num: 2  
Candidate Starts for Wojtek\_60:  
(Start: 2 @42299 has 29 MA's), (3, 42314), (5, 42371), (6, 42443), (7, 42479), (8, 42695),

Gene: Xenia2\_58 Start: 41620, Stop: 42105, Start Num: 2  
Candidate Starts for Xenia2\_58:  
(1, 41575), (Start: 2 @41620 has 29 MA's), (3, 41635), (5, 41692), (6, 41764),

Gene: Yikes\_66 Start: 44354, Stop: 44833, Start Num: 2

Candidate Starts for Yikes\_66:

(Start: 2 @44354 has 29 MA's), (3, 44369), (5, 44426), (6, 44498),

Gene: Zany\_62 Start: 43763, Stop: 44242, Start Num: 2

Candidate Starts for Zany\_62:

(Start: 2 @43763 has 29 MA's), (3, 43778), (5, 43835), (6, 43907), (7, 43943),