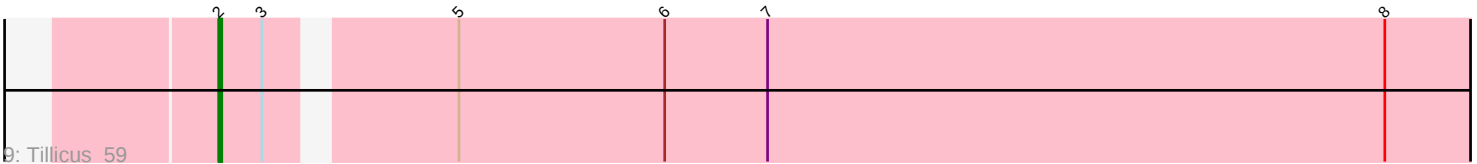
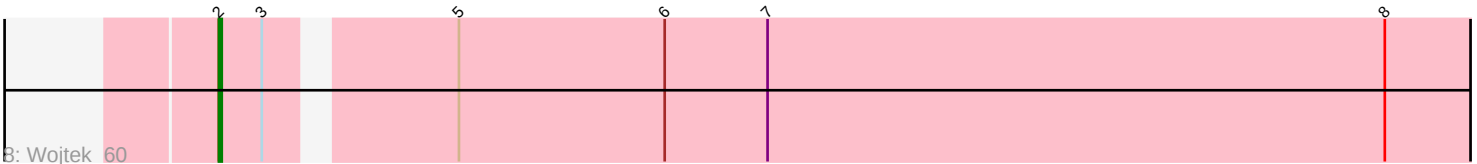
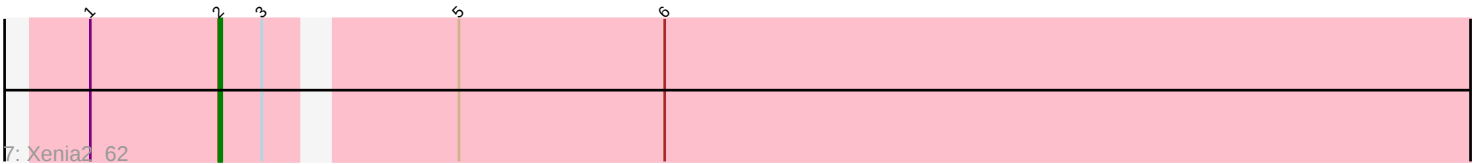
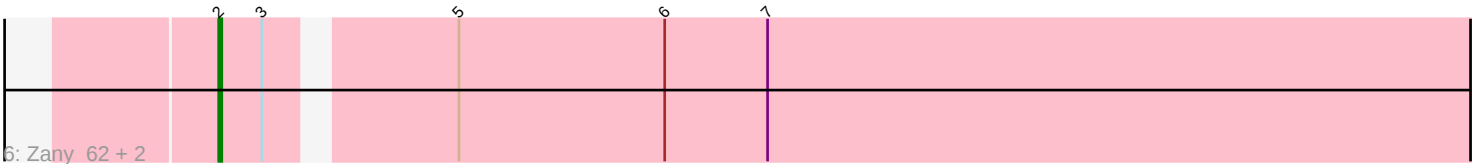
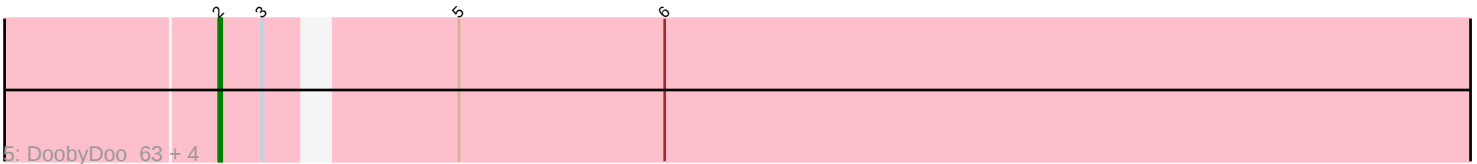
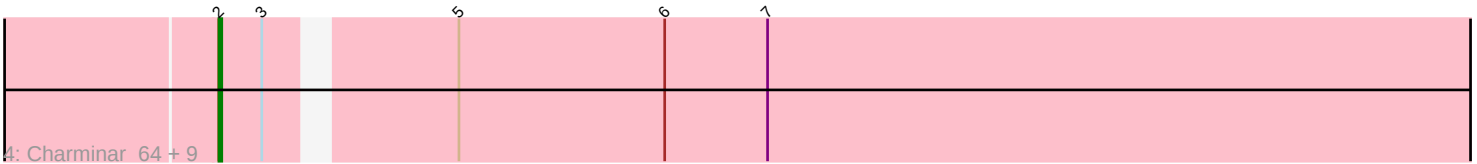
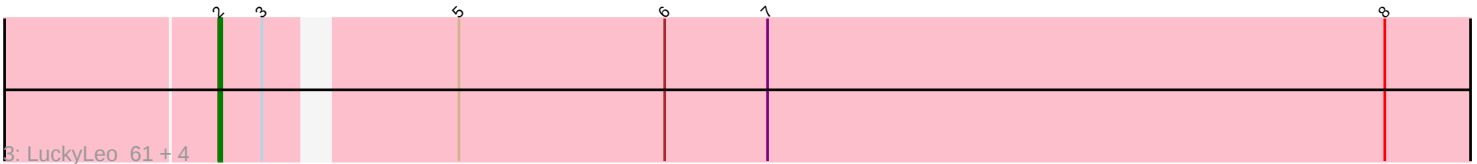
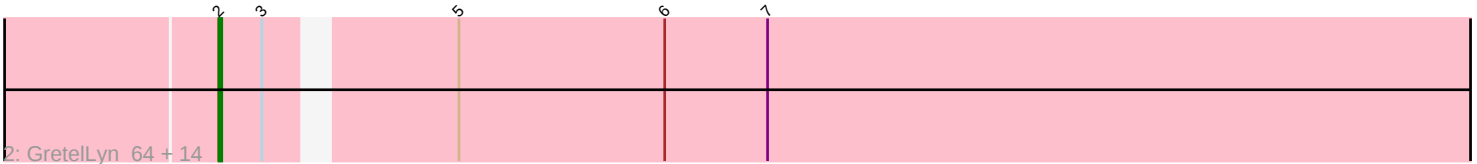
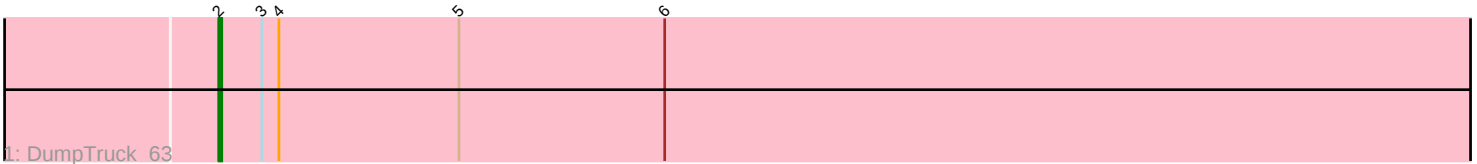


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 274385 Report

This analysis was run 02/07/26 on database version 634.

Pham number 274385 has 42 members, 5 are drafts.

Phages represented in each track:

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

### ***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 37 of the 37 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alephilan\_64, Alyssamiracle\_67, Apeppi\_59, Astralis\_64, Avian\_62, BirthdayBoy\_66, Charminar\_64, DaviePasture\_64, DoobyDoo\_63, DumpTruck\_63, Erutan\_64, Fulcrum\_64, GOATification\_64, Genamy16\_67, Gibbin\_66, GretellYn\_64, Jalebi\_63, Jamemuya19\_63, Lambo\_62, LavAbarElk\_64, Lila22\_65, LuckyLeo\_61, Mima20\_64, MoiGyank\_67, NorManre\_68, NovaSharks\_66, OtterstedtS21\_64, ParvusTarda\_63, Patos\_68, Ranch\_64, RazorC\_64, Rota\_61, Rukungu\_66, Rumi\_65, Sadboi\_65, Sampudon\_64, Stormer\_64, Tillicus\_59, Wojtek\_60, Xenia2\_62, 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 42 of 42 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 37 of 37
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alephilan\_64 (DV), Alyssamiracle\_67 (DV), Apeppi\_59 (DV), Astralis\_64 (DV), Avian\_62 (DV), BirthdayBoy\_66 (DV), Charminar\_64 (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\_63 (DV), Lambo\_62 (DV), LavAbarElk\_64 (DV), Lila22\_65 (DV), LuckyLeo\_61 (DV), Mima20\_64 (DV), MoiGyank\_67 (DV), NorManre\_68 (DV), NovaSharks\_66 (DV), OtterstedtS21\_64 (DV), ParvusTarda\_63 (DV), Patos\_68 (DV), Ranch\_64 (DV), RazorC\_64 (DV), Rota\_61 (DV), Rukungu\_66 (DV), Rumi\_65 (DV), Sadboi\_65 (DV), Sampudon\_64 (DV), Stormer\_64 (DV), Tillicus\_59 (DV), Wojtek\_60 (DV), Xenia2\_62 (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 37 times for cluster DV.

## Gene Information:

Gene: Alephilan\_64 Start: 43346, Stop: 43825, Start Num: 2

Candidate Starts for Alephilan\_64:

(Start: 2 @43346 has 37 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 37 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 37 MA's), (3, 42692), (5, 42749), (6, 42821), (7, 42857), (8, 43073),

Gene: Astralis\_64 Start: 42031, Stop: 42510, Start Num: 2

Candidate Starts for Astralis\_64:

(Start: 2 @42031 has 37 MA's), (3, 42046), (5, 42103), (6, 42175), (7, 42211),

Gene: Avian\_62 Start: 42180, Stop: 42659, Start Num: 2

Candidate Starts for Avian\_62:

(Start: 2 @42180 has 37 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 37 MA's), (3, 43778), (5, 43835), (6, 43907), (7, 43943),

Gene: Charminar\_64 Start: 41798, Stop: 42277, Start Num: 2  
Candidate Starts for Charminar\_64:  
(Start: 2 @41798 has 37 MA's), (3, 41813), (5, 41870), (6, 41942), (7, 41978),

Gene: DaviePasture\_64 Start: 43372, Stop: 43851, Start Num: 2  
Candidate Starts for DaviePasture\_64:  
(Start: 2 @43372 has 37 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 37 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 37 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 37 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 37 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 37 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 37 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 37 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 37 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 37 MA's), (3, 44275), (5, 44332), (6, 44404),

Gene: Jamemuya19\_63 Start: 42043, Stop: 42522, Start Num: 2  
Candidate Starts for Jamemuya19\_63:  
(Start: 2 @42043 has 37 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 37 MA's), (3, 42881), (5, 42938), (6, 43010), (7, 43046),

Gene: LavAbarElk\_64 Start: 42650, Stop: 43129, Start Num: 2

Candidate Starts for LavAbarElk\_64:

(Start: 2 @42650 has 37 MA's), (3, 42665), (5, 42722), (6, 42794), (7, 42830),

Gene: Lila22\_65 Start: 43820, Stop: 44299, Start Num: 2

Candidate Starts for Lila22\_65:

(Start: 2 @43820 has 37 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 37 MA's), (3, 42692), (5, 42749), (6, 42821), (7, 42857), (8, 43073),

Gene: Mima20\_64 Start: 43423, Stop: 43902, Start Num: 2

Candidate Starts for Mima20\_64:

(Start: 2 @43423 has 37 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 37 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 37 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 37 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 37 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 37 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 37 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 37 MA's), (3, 42049), (5, 42106), (6, 42178), (7, 42214), (8, 42430),

Gene: RazorC\_64 Start: 42183, Stop: 42662, Start Num: 2

Candidate Starts for RazorC\_64:

(Start: 2 @42183 has 37 MA's), (3, 42198), (5, 42255), (6, 42327), (7, 42363),

Gene: Rota\_61 Start: 43105, Stop: 43584, Start Num: 2

Candidate Starts for Rota\_61:

(Start: 2 @43105 has 37 MA's), (3, 43120), (5, 43177), (6, 43249), (7, 43285),

Gene: Rukungu\_66 Start: 44107, Stop: 44586, Start Num: 2

Candidate Starts for Rukungu\_66:

(Start: 2 @44107 has 37 MA's), (3, 44122), (5, 44179), (6, 44251), (7, 44287),

Gene: Rumi\_65 Start: 41726, Stop: 42205, Start Num: 2

Candidate Starts for Rumi\_65:

(Start: 2 @41726 has 37 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 37 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 37 MA's), (3, 44275), (5, 44332), (6, 44404),

Gene: Stormer\_64 Start: 41730, Stop: 42209, Start Num: 2

Candidate Starts for Stormer\_64:

(Start: 2 @41730 has 37 MA's), (3, 41745), (5, 41802), (6, 41874), (7, 41910),

Gene: Tillicus\_59 Start: 42618, Stop: 43097, Start Num: 2

Candidate Starts for Tillicus\_59:

(Start: 2 @42618 has 37 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 37 MA's), (3, 42314), (5, 42371), (6, 42443), (7, 42479), (8, 42695),

Gene: Xenia2\_62 Start: 41620, Stop: 42105, Start Num: 2

Candidate Starts for Xenia2\_62:

(1, 41575), (Start: 2 @41620 has 37 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 37 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 37 MA's), (3, 43778), (5, 43835), (6, 43907), (7, 43943),