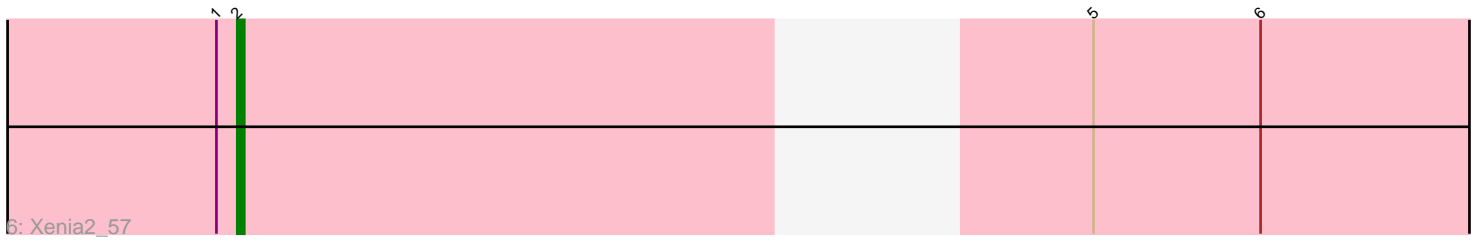
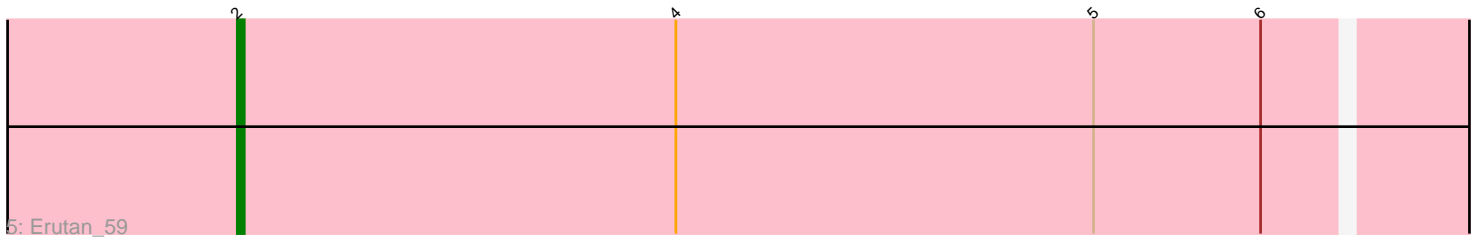
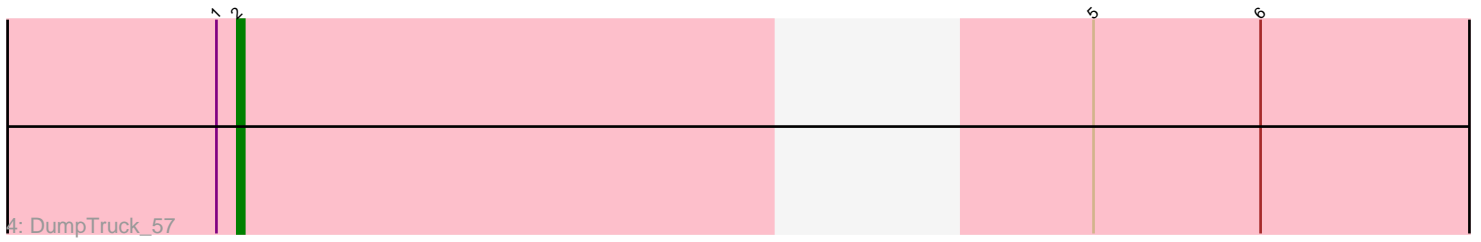
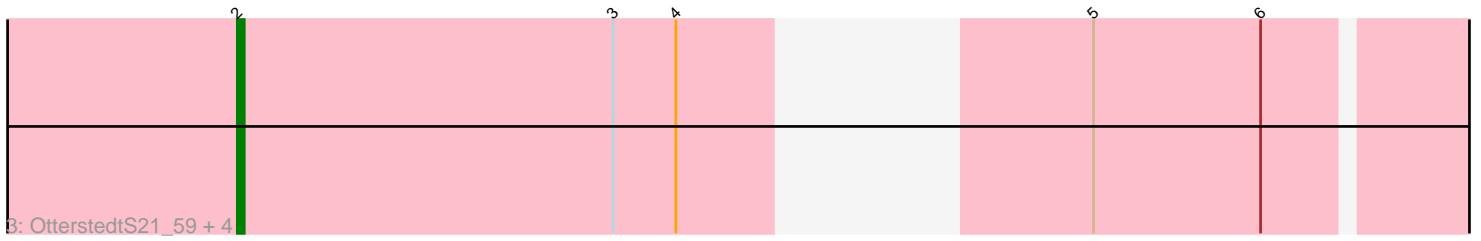
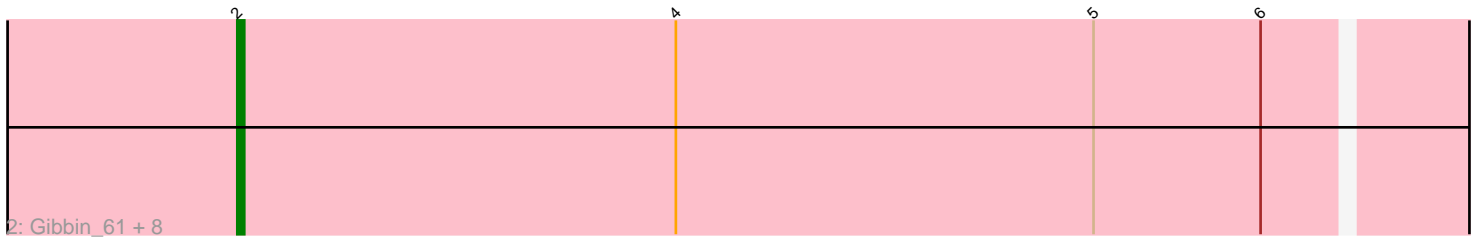
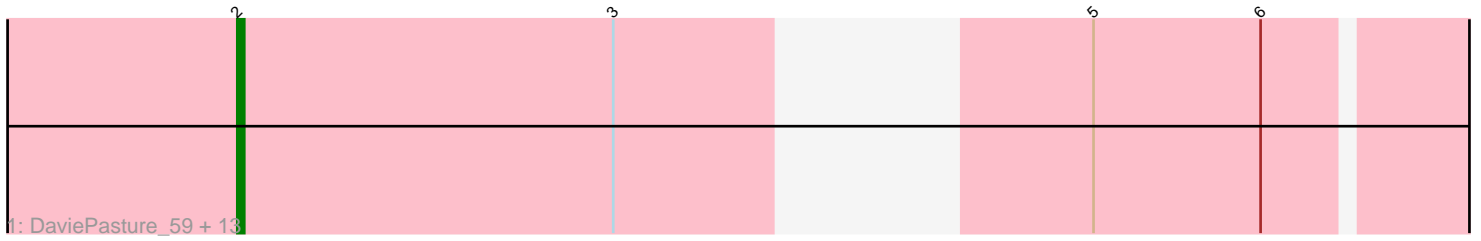


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 300242 Report

This analysis was run 06/08/26 on database version 649.

Pham number 300242 has 31 members, 0 are drafts.

Phages represented in each track:

- Track 1 : DaviePasture\_59, Avian\_58, Alyssamiracle\_62, Lila22\_60, Lambo\_57, RazorC\_59, Ranch\_59, Astralis\_59, Genamy16\_62, NovaSharks\_61, Rumi\_60, Riduram\_58, Mima20\_59, Charminar\_58
- Track 2 : Gibbin\_61, GOATification\_59, Alephilan\_59, Yikes\_61, Patos\_62, Fulcrum\_59, NorManre\_62, ParvusTarda\_58, BirthdayBoy\_61
- Track 3 : OtterstedtS21\_59, Sadboi\_60, MoiGyank\_62, DoobyDoo\_58, GretelLyn\_59
- Track 4 : DumpTruck\_57
- Track 5 : Erutan\_59
- Track 6 : Xenia2\_57

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

Genes that call this "Most Annotated" start:

- Alephilan\_59, Alyssamiracle\_62, Astralis\_59, Avian\_58, BirthdayBoy\_61, Charminar\_58, DaviePasture\_59, DoobyDoo\_58, DumpTruck\_57, Erutan\_59, Fulcrum\_59, GOATification\_59, Genamy16\_62, Gibbin\_61, GretelLyn\_59, Lambo\_57, Lila22\_60, Mima20\_59, MoiGyank\_62, NorManre\_62, NovaSharks\_61, OtterstedtS21\_59, ParvusTarda\_58, Patos\_62, Ranch\_59, RazorC\_59, Riduram\_58, Rumi\_60, Sadboi\_60, Xenia2\_57, Yikes\_61,

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 31 of 31 ( 100.0% ) of genes in pham

- Manual Annotations of this start: 31 of 31
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alephilan\_59 (DV), Alyssamiracle\_62 (DV), Astralis\_59 (DV), Avian\_58 (DV), BirthdayBoy\_61 (DV), Charminar\_58 (DV), DaviePasture\_59 (DV), DoobyDoo\_58 (DV), DumpTruck\_57 (DV), Erutan\_59 (DV), Fulcrum\_59 (DV), GOATification\_59 (DV), Genamy16\_62 (DV), Gibbin\_61 (DV), Gretellyn\_59 (DV), Lambo\_57 (DV), Lila22\_60 (DV), Mima20\_59 (DV), MoiGyank\_62 (DV), NorManre\_62 (DV), NovaSharks\_61 (DV), OtterstedtS21\_59 (DV), ParvusTarda\_58 (DV), Patos\_62 (DV), Ranch\_59 (DV), RazorC\_59 (DV), Riduram\_58 (DV), Rumi\_60 (DV), Sadboi\_60 (DV), Xenia2\_57 (DV), Yikes\_61 (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 31 times for cluster DV.

### **Gene Information:**

Gene: Alephilan\_59 Start: 40571, Stop: 40747, Start Num: 2

Candidate Starts for Alephilan\_59:

(Start: 2 @40571 has 31 MA's), (4, 40634), (5, 40694), (6, 40718),

Gene: Alyssamiracle\_62 Start: 39704, Stop: 39853, Start Num: 2

Candidate Starts for Alyssamiracle\_62:

(Start: 2 @39704 has 31 MA's), (3, 39758), (5, 39800), (6, 39824),

Gene: Astralis\_59 Start: 39282, Stop: 39431, Start Num: 2

Candidate Starts for Astralis\_59:

(Start: 2 @39282 has 31 MA's), (3, 39336), (5, 39378), (6, 39402),

Gene: Avian\_58 Start: 39432, Stop: 39581, Start Num: 2

Candidate Starts for Avian\_58:

(Start: 2 @39432 has 31 MA's), (3, 39486), (5, 39528), (6, 39552),

Gene: BirthdayBoy\_61 Start: 40989, Stop: 41165, Start Num: 2

Candidate Starts for BirthdayBoy\_61:

(Start: 2 @40989 has 31 MA's), (4, 41052), (5, 41112), (6, 41136),

Gene: Charminar\_58 Start: 39050, Stop: 39199, Start Num: 2

Candidate Starts for Charminar\_58:

(Start: 2 @39050 has 31 MA's), (3, 39104), (5, 39146), (6, 39170),

Gene: DaviePasture\_59 Start: 40624, Stop: 40773, Start Num: 2

Candidate Starts for DaviePasture\_59:

(Start: 2 @40624 has 31 MA's), (3, 40678), (5, 40720), (6, 40744),

Gene: DoobyDoo\_58 Start: 39646, Stop: 39795, Start Num: 2

Candidate Starts for DoobyDoo\_58:

(Start: 2 @39646 has 31 MA's), (3, 39700), (4, 39709), (5, 39742), (6, 39766),

Gene: DumpTruck\_57 Start: 39119, Stop: 39271, Start Num: 2  
Candidate Starts for DumpTruck\_57:  
(1, 39116), (Start: 2 @39119 has 31 MA's), (5, 39215), (6, 39239),

Gene: Erutan\_59 Start: 40269, Stop: 40445, Start Num: 2  
Candidate Starts for Erutan\_59:  
(Start: 2 @40269 has 31 MA's), (4, 40332), (5, 40392), (6, 40416),

Gene: Fulcrum\_59 Start: 40285, Stop: 40461, Start Num: 2  
Candidate Starts for Fulcrum\_59:  
(Start: 2 @40285 has 31 MA's), (4, 40348), (5, 40408), (6, 40432),

Gene: GOATification\_59 Start: 40285, Stop: 40461, Start Num: 2  
Candidate Starts for GOATification\_59:  
(Start: 2 @40285 has 31 MA's), (4, 40348), (5, 40408), (6, 40432),

Gene: Genamy16\_62 Start: 39690, Stop: 39839, Start Num: 2  
Candidate Starts for Genamy16\_62:  
(Start: 2 @39690 has 31 MA's), (3, 39744), (5, 39786), (6, 39810),

Gene: Gibbin\_61 Start: 41094, Stop: 41270, Start Num: 2  
Candidate Starts for Gibbin\_61:  
(Start: 2 @41094 has 31 MA's), (4, 41157), (5, 41217), (6, 41241),

Gene: Gretellyn\_59 Start: 41168, Stop: 41317, Start Num: 2  
Candidate Starts for Gretellyn\_59:  
(Start: 2 @41168 has 31 MA's), (3, 41222), (4, 41231), (5, 41264), (6, 41288),

Gene: Lambo\_57 Start: 40122, Stop: 40271, Start Num: 2  
Candidate Starts for Lambo\_57:  
(Start: 2 @40122 has 31 MA's), (3, 40176), (5, 40218), (6, 40242),

Gene: Lila22\_60 Start: 41073, Stop: 41222, Start Num: 2  
Candidate Starts for Lila22\_60:  
(Start: 2 @41073 has 31 MA's), (3, 41127), (5, 41169), (6, 41193),

Gene: Mima20\_59 Start: 40676, Stop: 40825, Start Num: 2  
Candidate Starts for Mima20\_59:  
(Start: 2 @40676 has 31 MA's), (3, 40730), (5, 40772), (6, 40796),

Gene: MoiGyank\_62 Start: 41449, Stop: 41598, Start Num: 2  
Candidate Starts for MoiGyank\_62:  
(Start: 2 @41449 has 31 MA's), (3, 41503), (4, 41512), (5, 41545), (6, 41569),

Gene: NorManre\_62 Start: 40806, Stop: 40982, Start Num: 2  
Candidate Starts for NorManre\_62:  
(Start: 2 @40806 has 31 MA's), (4, 40869), (5, 40929), (6, 40953),

Gene: NovaSharks\_61 Start: 39281, Stop: 39430, Start Num: 2  
Candidate Starts for NovaSharks\_61:  
(Start: 2 @39281 has 31 MA's), (3, 39335), (5, 39377), (6, 39401),

Gene: OtterstedtS21\_59 Start: 40455, Stop: 40604, Start Num: 2  
Candidate Starts for OtterstedtS21\_59:  
(Start: 2 @40455 has 31 MA's), (3, 40509), (4, 40518), (5, 40551), (6, 40575),

Gene: ParvusTarda\_58 Start: 39803, Stop: 39979, Start Num: 2  
Candidate Starts for ParvusTarda\_58:  
(Start: 2 @39803 has 31 MA's), (4, 39866), (5, 39926), (6, 39950),

Gene: Patos\_62 Start: 40805, Stop: 40981, Start Num: 2  
Candidate Starts for Patos\_62:  
(Start: 2 @40805 has 31 MA's), (4, 40868), (5, 40928), (6, 40952),

Gene: Ranch\_59 Start: 39287, Stop: 39436, Start Num: 2  
Candidate Starts for Ranch\_59:  
(Start: 2 @39287 has 31 MA's), (3, 39341), (5, 39383), (6, 39407),

Gene: RazorC\_59 Start: 39434, Stop: 39583, Start Num: 2  
Candidate Starts for RazorC\_59:  
(Start: 2 @39434 has 31 MA's), (3, 39488), (5, 39530), (6, 39554),

Gene: Riduram\_58 Start: 39010, Stop: 39159, Start Num: 2  
Candidate Starts for Riduram\_58:  
(Start: 2 @39010 has 31 MA's), (3, 39064), (5, 39106), (6, 39130),

Gene: Rumi\_60 Start: 38978, Stop: 39127, Start Num: 2  
Candidate Starts for Rumi\_60:  
(Start: 2 @38978 has 31 MA's), (3, 39032), (5, 39074), (6, 39098),

Gene: Sadboi\_60 Start: 41169, Stop: 41318, Start Num: 2  
Candidate Starts for Sadboi\_60:  
(Start: 2 @41169 has 31 MA's), (3, 41223), (4, 41232), (5, 41265), (6, 41289),

Gene: Xenia2\_57 Start: 38866, Stop: 39018, Start Num: 2  
Candidate Starts for Xenia2\_57:  
(1, 38863), (Start: 2 @38866 has 31 MA's), (5, 38962), (6, 38986),

Gene: Yikes\_61 Start: 41580, Stop: 41756, Start Num: 2  
Candidate Starts for Yikes\_61:  
(Start: 2 @41580 has 31 MA's), (4, 41643), (5, 41703), (6, 41727),