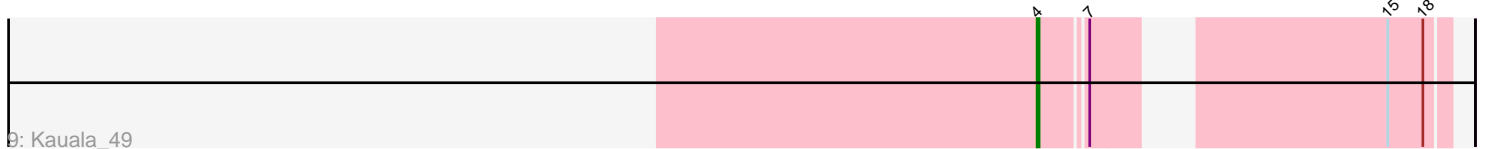
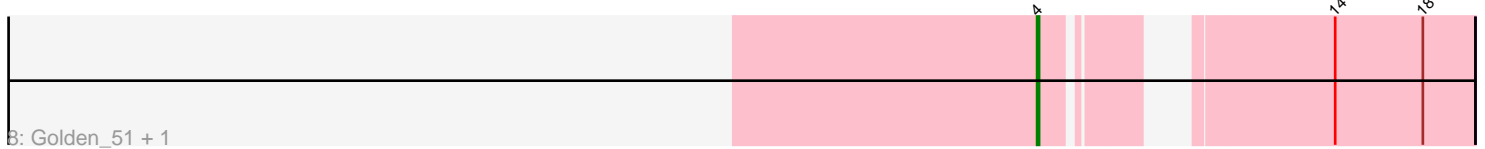
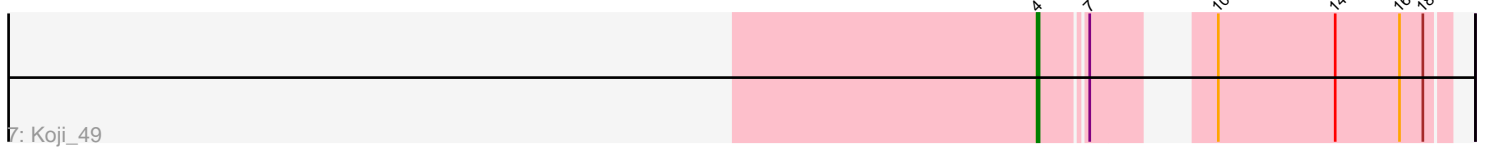
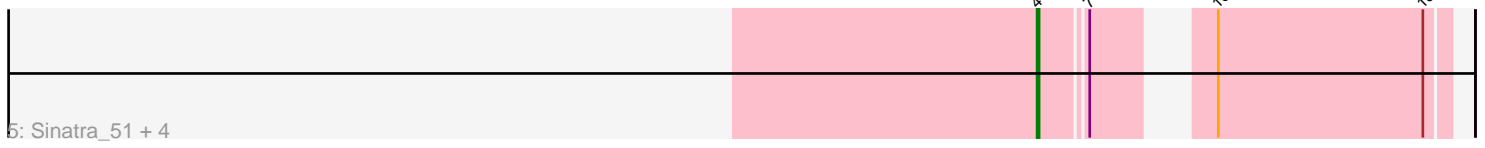
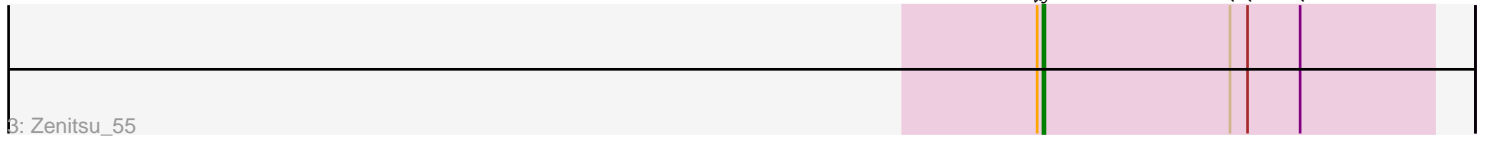
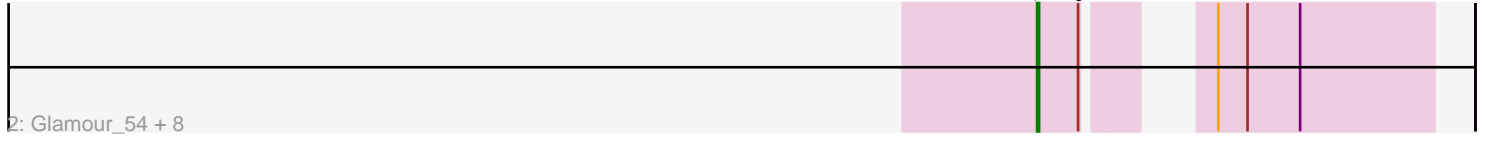
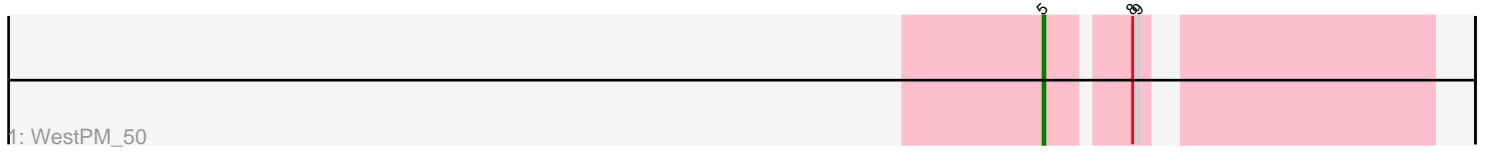


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 179369 Report

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

Pham number 179369 has 24 members, 0 are drafts.

Phages represented in each track:

- Track 1 : WestPM\_50
- Track 2 : Glamour\_54, Andromedas\_55, ChikPic\_55, Shamu\_55, Eleri\_55, ColaCorta\_55, Sansa\_53, Saratos\_55, Finny\_56
- Track 3 : Zenitsu\_55
- Track 4 : MCubed\_55
- Track 5 : Sinatra\_51, Bustleton\_50, PrincePhergus\_50, Pherbot\_50, BouleyBill\_49
- Track 6 : SirVictor\_52, Guetzie\_52
- Track 7 : Koji\_49
- Track 8 : Golden\_51, Lucky3\_51
- Track 9 : Kauala\_49
- Track 10 : Cheeto1\_54

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

The start number called the most often in the published annotations is 4, it was called in 20 of the 24 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Andromedas\_55, BouleyBill\_49, Bustleton\_50, Cheeto1\_54, ChikPic\_55, ColaCorta\_55, Eleri\_55, Finny\_56, Glamour\_54, Golden\_51, Kauala\_49, Koji\_49, Lucky3\_51, MCubed\_55, Pherbot\_50, PrincePhergus\_50, Sansa\_53, Saratos\_55, Shamu\_55, Sinatra\_51,

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

- Zenitsu\_55,

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

- Guetzie\_52, SirVictor\_52, WestPM\_50,

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

Start 4:

- Found in 21 of 24 ( 87.5% ) of genes in pham
- Manual Annotations of this start: 20 of 24

- Called 95.2% of time when present
- Phage (with cluster) where this start called: Andromedas\_55 (EA2), BouleyBill\_49 (EA4), Bustleton\_50 (EA4), Cheeto1\_54 (EA9), ChikPic\_55 (EA2), ColaCorta\_55 (EA2), Eleri\_55 (EA2), Finny\_56 (EA2), Glamour\_54 (EA2), Golden\_51 (EA4), Kauala\_49 (EA4), Koji\_49 (EA4), Lucky3\_51 (EA4), MCubed\_55 (EA2), Pherbot\_50 (EA4), PrincePhergus\_50 (EA4), Sansa\_53 (EA2), Saratos\_55 (EA2), Shamu\_55 (EA2), Sinatra\_51 (EA4),

Start 5:

- Found in 5 of 24 ( 20.8% ) of genes in pham
- Manual Annotations of this start: 4 of 24
- Called 80.0% of time when present
- Phage (with cluster) where this start called: Guetzie\_52 (EA4), SirVictor\_52 (EA4), WestPM\_50 (EA11), Zenitsu\_55 (EA2),

### **Summary by clusters:**

There are 4 clusters represented in this pham: EA9, EA2, EA11, EA4,

Info for manual annotations of cluster EA11:

- Start number 5 was manually annotated 1 time for cluster EA11.

Info for manual annotations of cluster EA2:

- Start number 4 was manually annotated 10 times for cluster EA2.
- Start number 5 was manually annotated 1 time for cluster EA2.

Info for manual annotations of cluster EA4:

- Start number 4 was manually annotated 9 times for cluster EA4.
- Start number 5 was manually annotated 2 times for cluster EA4.

Info for manual annotations of cluster EA9:

- Start number 4 was manually annotated 1 time for cluster EA9.

### **Gene Information:**

Gene: Andromedas\_55 Start: 37029, Stop: 36862, Start Num: 4

Candidate Starts for Andromedas\_55:

(Start: 4 @37029 has 20 MA's), (6, 37008), (10, 36972), (12, 36957), (13, 36930),

Gene: BouleyBill\_49 Start: 35415, Stop: 35239, Start Num: 4

Candidate Starts for BouleyBill\_49:

(Start: 4 @35415 has 20 MA's), (7, 35394), (10, 35355), (18, 35250),

Gene: Bustleton\_50 Start: 35404, Stop: 35228, Start Num: 4

Candidate Starts for Bustleton\_50:

(Start: 4 @35404 has 20 MA's), (7, 35383), (10, 35344), (18, 35239),

Gene: Cheeto1\_54 Start: 37020, Stop: 36841, Start Num: 4

Candidate Starts for Cheeto1\_54:

(1, 37518), (2, 37353), (3, 37350), (Start: 4 @37020 has 20 MA's), (14, 36894), (16, 36861), (17, 36852),

Gene: ChikPic\_55 Start: 36838, Stop: 36671, Start Num: 4

Candidate Starts for ChikPic\_55:

(Start: 4 @36838 has 20 MA's), (6, 36817), (10, 36781), (12, 36766), (13, 36739),

Gene: ColaCorta\_55 Start: 37029, Stop: 36862, Start Num: 4

Candidate Starts for ColaCorta\_55:

(Start: 4 @37029 has 20 MA's), (6, 37008), (10, 36972), (12, 36957), (13, 36930),

Gene: Eleri\_55 Start: 36874, Stop: 36707, Start Num: 4

Candidate Starts for Eleri\_55:

(Start: 4 @36874 has 20 MA's), (6, 36853), (10, 36817), (12, 36802), (13, 36775),

Gene: Finny\_56 Start: 36822, Stop: 36655, Start Num: 4

Candidate Starts for Finny\_56:

(Start: 4 @36822 has 20 MA's), (6, 36801), (10, 36765), (12, 36750), (13, 36723),

Gene: Glamour\_54 Start: 36732, Stop: 36565, Start Num: 4

Candidate Starts for Glamour\_54:

(Start: 4 @36732 has 20 MA's), (6, 36711), (10, 36675), (12, 36660), (13, 36633),

Gene: Golden\_51 Start: 35886, Stop: 35701, Start Num: 4

Candidate Starts for Golden\_51:

(Start: 4 @35886 has 20 MA's), (14, 35772), (18, 35727),

Gene: Guetzie\_52 Start: 35975, Stop: 35784, Start Num: 5

Candidate Starts for Guetzie\_52:

(3, 36308), (Start: 5 @35975 has 4 MA's), (7, 35954), (14, 35855), (18, 35810),

Gene: Kauala\_49 Start: 35603, Stop: 35430, Start Num: 4

Candidate Starts for Kauala\_49:

(Start: 4 @35603 has 20 MA's), (7, 35582), (15, 35459), (18, 35441),

Gene: Koji\_49 Start: 35596, Stop: 35420, Start Num: 4

Candidate Starts for Koji\_49:

(Start: 4 @35596 has 20 MA's), (7, 35575), (10, 35536), (14, 35476), (16, 35443), (18, 35431),

Gene: Lucky3\_51 Start: 35886, Stop: 35701, Start Num: 4

Candidate Starts for Lucky3\_51:

(Start: 4 @35886 has 20 MA's), (14, 35772), (18, 35727),

Gene: MCubed\_55 Start: 36889, Stop: 36686, Start Num: 4

Candidate Starts for MCubed\_55:

(Start: 4 @36889 has 20 MA's), (Start: 5 @36886 has 4 MA's), (11, 36790), (12, 36781), (13, 36754),

Gene: Pherbot\_50 Start: 35391, Stop: 35215, Start Num: 4

Candidate Starts for Pherbot\_50:

(Start: 4 @35391 has 20 MA's), (7, 35370), (10, 35331), (18, 35226),

Gene: PrincePhergus\_50 Start: 35407, Stop: 35231, Start Num: 4

Candidate Starts for PrincePhergus\_50:

(Start: 4 @35407 has 20 MA's), (7, 35386), (10, 35347), (18, 35242),

Gene: Sansa\_53 Start: 36814, Stop: 36647, Start Num: 4

Candidate Starts for Sansa\_53:

(Start: 4 @36814 has 20 MA's), (6, 36793), (10, 36757), (12, 36742), (13, 36715),

Gene: Saratos\_55 Start: 36858, Stop: 36691, Start Num: 4

Candidate Starts for Saratos\_55:

(Start: 4 @36858 has 20 MA's), (6, 36837), (10, 36801), (12, 36786), (13, 36759),

Gene: Shamu\_55 Start: 36747, Stop: 36580, Start Num: 4

Candidate Starts for Shamu\_55:

(Start: 4 @36747 has 20 MA's), (6, 36726), (10, 36690), (12, 36675), (13, 36648),

Gene: Sinatra\_51 Start: 35402, Stop: 35226, Start Num: 4

Candidate Starts for Sinatra\_51:

(Start: 4 @35402 has 20 MA's), (7, 35381), (10, 35342), (18, 35237),

Gene: SirVictor\_52 Start: 35975, Stop: 35784, Start Num: 5

Candidate Starts for SirVictor\_52:

(3, 36308), (Start: 5 @35975 has 4 MA's), (7, 35954), (14, 35855), (18, 35810),

Gene: WestPM\_50 Start: 35445, Stop: 35272, Start Num: 5

Candidate Starts for WestPM\_50:

(Start: 5 @35445 has 4 MA's), (8, 35409), (9, 35406),

Gene: Zenitsu\_55 Start: 36891, Stop: 36691, Start Num: 5

Candidate Starts for Zenitsu\_55:

(Start: 4 @36894 has 20 MA's), (Start: 5 @36891 has 4 MA's), (11, 36795), (12, 36786), (13, 36759),