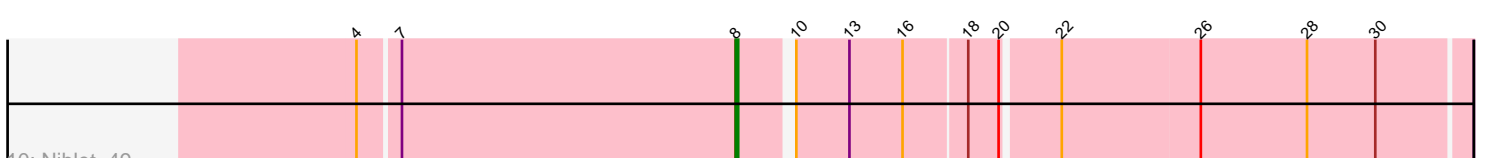
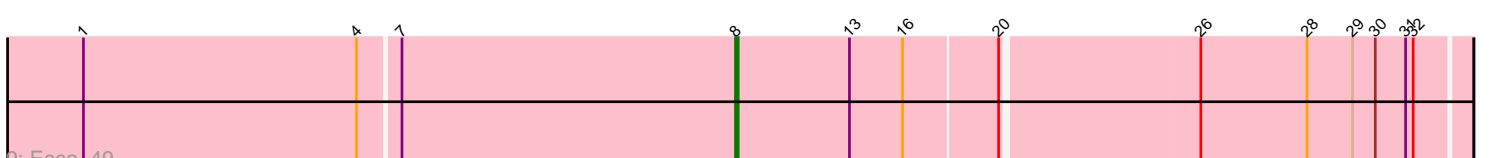
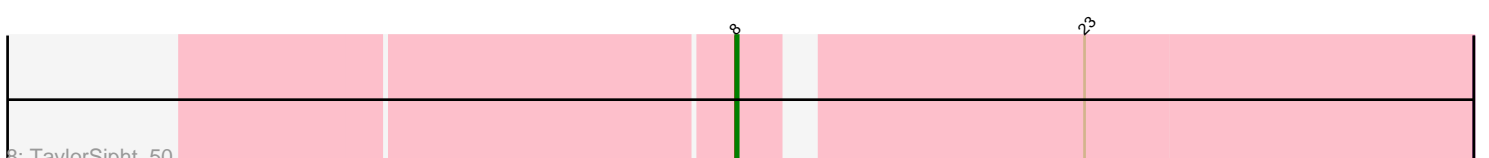
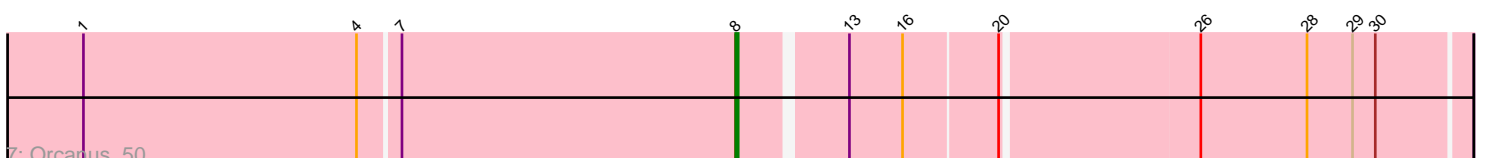
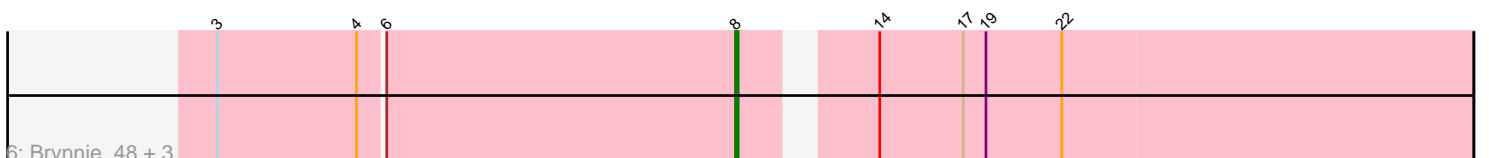
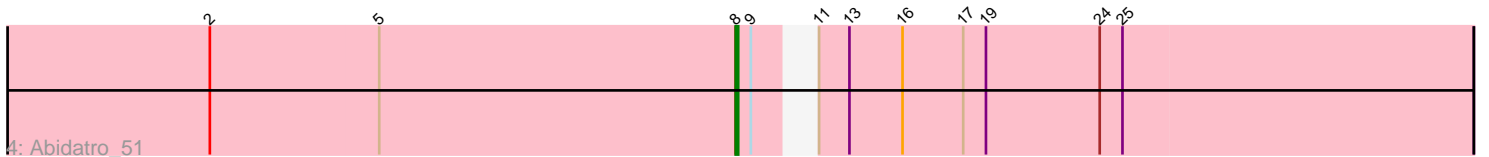
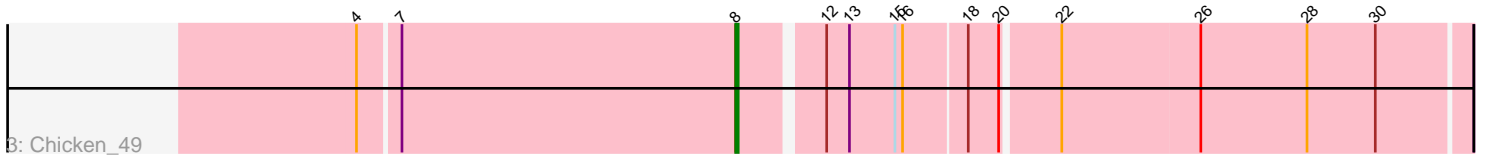
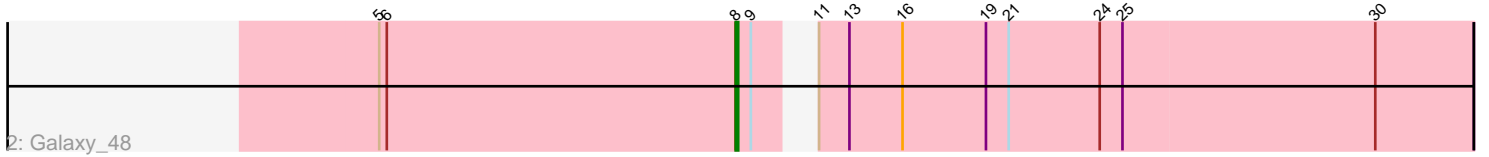
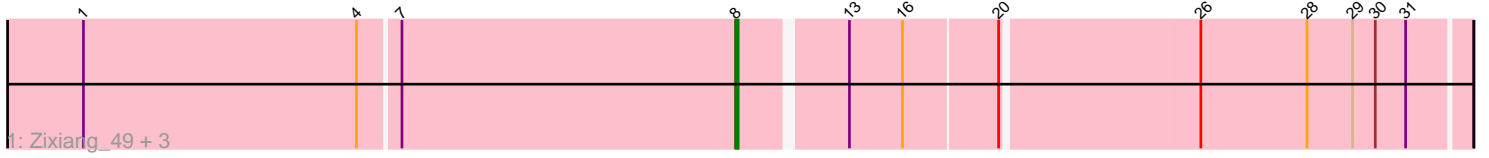


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 312068 Report

This analysis was run 06/27/26 on database version 652.

Pham number 312068 has 19 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Zixiang\_49, Toad24\_52, Amanises\_52, Shen\_49
- Track 2 : Galaxy\_48
- Track 3 : Chicken\_49
- Track 4 : Abidatro\_51
- Track 5 : KendraB23\_60, Gravel\_59, Pelletreau\_59, Westrich\_58
- Track 6 : Brynnie\_48, Basilisk\_49, Vulpecula\_48, Ruchi\_48
- Track 7 : Orcanus\_50
- Track 8 : TaylorSipht\_50
- Track 9 : Eesa\_49
- Track 10 : Niblet\_49

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

The start number called the most often in the published annotations is 8, it was called in 14 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Abidatro\_51, Amanises\_52, Basilisk\_49, Brynnie\_48, Chicken\_49, Eesa\_49, Galaxy\_48, Gravel\_59, KendraB23\_60, Niblet\_49, Orcanus\_50, Pelletreau\_59, Ruchi\_48, Shen\_49, TaylorSipht\_50, Toad24\_52, Vulpecula\_48, Westrich\_58, Zixiang\_49,

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 8:

- Found in 19 of 19 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 14 of 14
- Called 100.0% of time when present

• Phage (with cluster) where this start called: Abidatro\_51 (AS1), Amanises\_52 (AS1), Basilisk\_49 (AS1), Brynnie\_48 (AS1), Chicken\_49 (AS1), Eesa\_49 (AS1), Galaxy\_48 (AS1), Gravel\_59 (AS1), KendraB23\_60 (AS1), Niblet\_49 (AS1), Orcanus\_50 (AS1), Pelletreau\_59 (AS1), Ruchi\_48 (AS1), Shen\_49 (AS1), TaylorSipt\_50 (AS1), Toad24\_52 (AS1), Vulpecula\_48 (AS1), Westrich\_58 (AS1), Zixiang\_49 (AS1),

### **Summary by clusters:**

There is one cluster represented in this pham: AS1

Info for manual annotations of cluster AS1:

•Start number 8 was manually annotated 14 times for cluster AS1.

### **Gene Information:**

Gene: Abidatro\_51 Start: 33285, Stop: 33560, Start Num: 8

Candidate Starts for Abidatro\_51:

(2, 33078), (5, 33144), (Start: 8 @33285 has 14 MA's), (9, 33291), (11, 33303), (13, 33315), (16, 33336), (17, 33360), (19, 33369), (24, 33414), (25, 33423),

Gene: Amanises\_52 Start: 34148, Stop: 34423, Start Num: 8

Candidate Starts for Amanises\_52:

(1, 33893), (4, 34001), (7, 34016), (Start: 8 @34148 has 14 MA's), (13, 34187), (16, 34208), (20, 34244), (26, 34319), (28, 34361), (29, 34379), (30, 34388), (31, 34400),

Gene: Basilisk\_49 Start: 32505, Stop: 32780, Start Num: 8

Candidate Starts for Basilisk\_49:

(3, 32304), (4, 32358), (6, 32367), (Start: 8 @32505 has 14 MA's), (14, 32547), (17, 32580), (19, 32589), (22, 32619),

Gene: Brynnie\_48 Start: 32362, Stop: 32637, Start Num: 8

Candidate Starts for Brynnie\_48:

(3, 32161), (4, 32215), (6, 32224), (Start: 8 @32362 has 14 MA's), (14, 32404), (17, 32437), (19, 32446), (22, 32476),

Gene: Chicken\_49 Start: 33464, Stop: 33739, Start Num: 8

Candidate Starts for Chicken\_49:

(4, 33317), (7, 33332), (Start: 8 @33464 has 14 MA's), (12, 33494), (13, 33503), (15, 33521), (16, 33524), (18, 33548), (20, 33560), (22, 33581), (26, 33635), (28, 33677), (30, 33704),

Gene: Eesa\_49 Start: 33873, Stop: 34154, Start Num: 8

Candidate Starts for Eesa\_49:

(1, 33618), (4, 33726), (7, 33741), (Start: 8 @33873 has 14 MA's), (13, 33918), (16, 33939), (20, 33975), (26, 34050), (28, 34092), (29, 34110), (30, 34119), (31, 34131), (32, 34134),

Gene: Galaxy\_48 Start: 31700, Stop: 31975, Start Num: 8

Candidate Starts for Galaxy\_48:

(5, 31559), (6, 31562), (Start: 8 @31700 has 14 MA's), (9, 31706), (11, 31718), (13, 31730), (16, 31751), (19, 31784), (21, 31793), (24, 31829), (25, 31838), (30, 31937),

Gene: Gravel\_59 Start: 33963, Stop: 34238, Start Num: 8

Candidate Starts for Gravel\_59:

(1, 33708), (4, 33816), (7, 33831), (Start: 8 @33963 has 14 MA's), (10, 33981), (13, 34002), (20, 34059), (26, 34134), (27, 34170), (28, 34176), (30, 34203),

Gene: KendraB23\_60 Start: 34149, Stop: 34424, Start Num: 8

Candidate Starts for KendraB23\_60:

(1, 33894), (4, 34002), (7, 34017), (Start: 8 @34149 has 14 MA's), (10, 34167), (13, 34188), (20, 34245), (26, 34320), (27, 34356), (28, 34362), (30, 34389),

Gene: Niblet\_49 Start: 33551, Stop: 33826, Start Num: 8

Candidate Starts for Niblet\_49:

(4, 33404), (7, 33419), (Start: 8 @33551 has 14 MA's), (10, 33569), (13, 33590), (16, 33611), (18, 33635), (20, 33647), (22, 33668), (26, 33722), (28, 33764), (30, 33791),

Gene: Orcanus\_50 Start: 33532, Stop: 33807, Start Num: 8

Candidate Starts for Orcanus\_50:

(1, 33277), (4, 33385), (7, 33400), (Start: 8 @33532 has 14 MA's), (13, 33571), (16, 33592), (20, 33628), (26, 33703), (28, 33745), (29, 33763), (30, 33772),

Gene: Pelletreau\_59 Start: 33963, Stop: 34238, Start Num: 8

Candidate Starts for Pelletreau\_59:

(1, 33708), (4, 33816), (7, 33831), (Start: 8 @33963 has 14 MA's), (10, 33981), (13, 34002), (20, 34059), (26, 34134), (27, 34170), (28, 34176), (30, 34203),

Gene: Ruchi\_48 Start: 32427, Stop: 32702, Start Num: 8

Candidate Starts for Ruchi\_48:

(3, 32226), (4, 32280), (6, 32289), (Start: 8 @32427 has 14 MA's), (14, 32469), (17, 32502), (19, 32511), (22, 32541),

Gene: Shen\_49 Start: 32062, Stop: 32337, Start Num: 8

Candidate Starts for Shen\_49:

(1, 31807), (4, 31915), (7, 31930), (Start: 8 @32062 has 14 MA's), (13, 32101), (16, 32122), (20, 32158), (26, 32233), (28, 32275), (29, 32293), (30, 32302), (31, 32314),

Gene: TaylorSipt\_50 Start: 33072, Stop: 33347, Start Num: 8

Candidate Starts for TaylorSipt\_50:

(Start: 8 @33072 has 14 MA's), (23, 33195),

Gene: Toad24\_52 Start: 34202, Stop: 34477, Start Num: 8

Candidate Starts for Toad24\_52:

(1, 33947), (4, 34055), (7, 34070), (Start: 8 @34202 has 14 MA's), (13, 34241), (16, 34262), (20, 34298), (26, 34373), (28, 34415), (29, 34433), (30, 34442), (31, 34454),

Gene: Vulpecula\_48 Start: 32087, Stop: 32362, Start Num: 8

Candidate Starts for Vulpecula\_48:

(3, 31886), (4, 31940), (6, 31949), (Start: 8 @32087 has 14 MA's), (14, 32129), (17, 32162), (19, 32171), (22, 32201),

Gene: Westrich\_58 Start: 33887, Stop: 34162, Start Num: 8

Candidate Starts for Westrich\_58:

(1, 33632), (4, 33740), (7, 33755), (Start: 8 @33887 has 14 MA's), (10, 33905), (13, 33926), (20, 33983), (26, 34058), (27, 34094), (28, 34100), (30, 34127),

Gene: Zixiang\_49 Start: 33566, Stop: 33841, Start Num: 8

Candidate Starts for Zixiang\_49:

(1, 33311), (4, 33419), (7, 33434), (Start: 8 @33566 has 14 MA's), (13, 33605), (16, 33626), (20, 33662), (26, 33737), (28, 33779), (29, 33797), (30, 33806), (31, 33818),