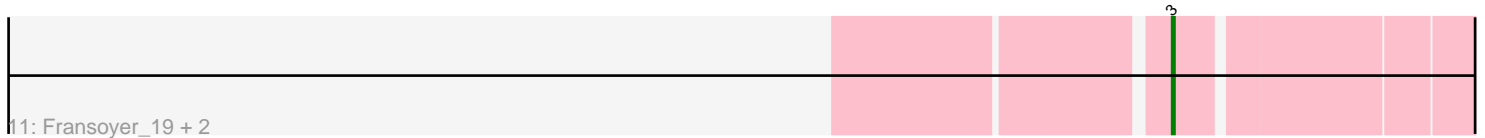
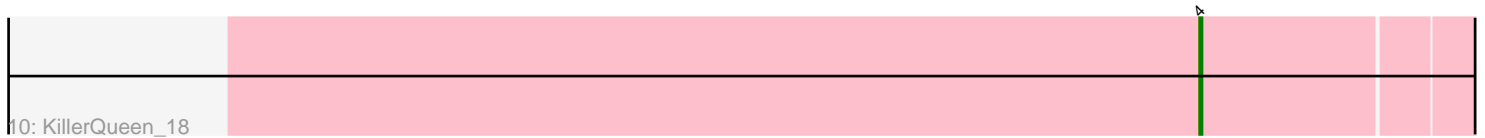
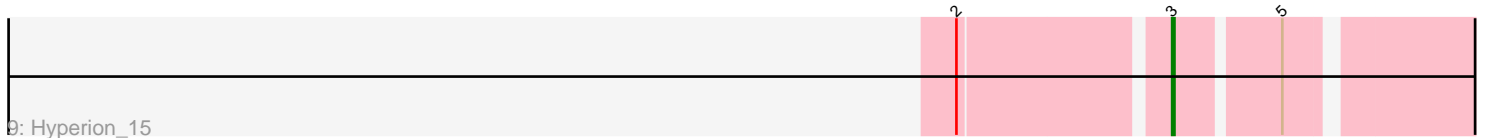
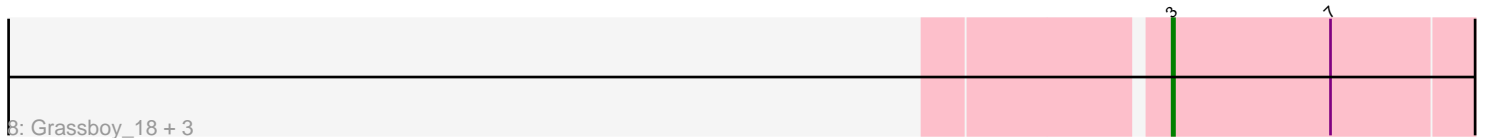
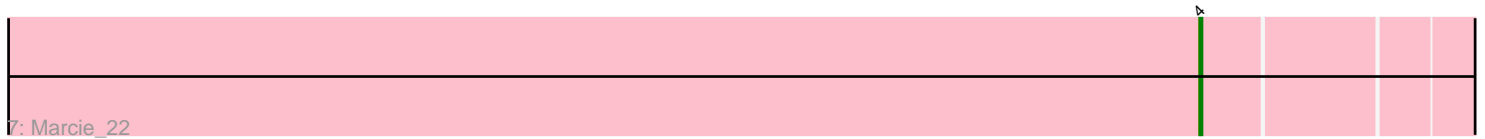
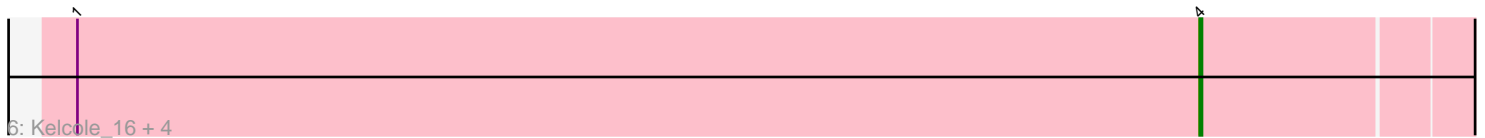
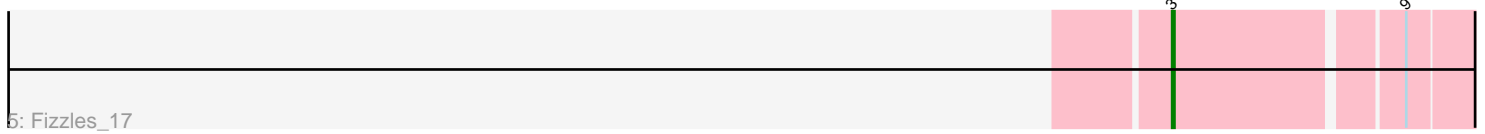
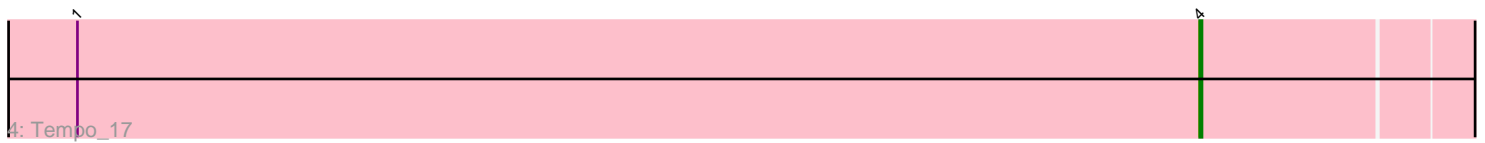
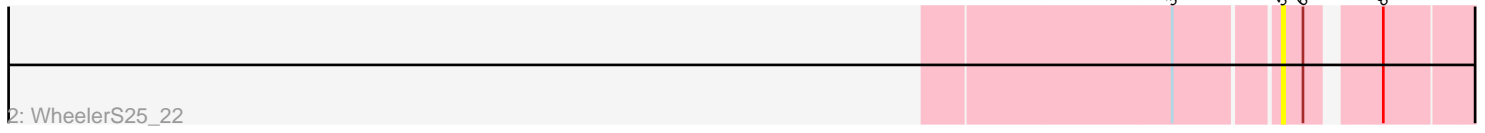


Pham 303500



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 303500 Report

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

Pham number 303500 has 40 members, 3 are drafts.

Phages represented in each track:

- Track 1 : MorillMayhem\_16, Quammi\_15, Gazebo\_16, Viceroy\_16, Zagie\_17, SallyK\_18, Mashley\_14, Lonelysoil\_16, BabyDotz\_16, Rudy\_15, EverythinBagel\_16, Llemily\_16, Rowlf\_13, Jehoshaphat\_19, Mila11\_19, StrawberryJamm\_19, Sillytadpoles\_16
- Track 2 : WheelerS25\_22
- Track 3 : Phabia\_17, Tissue\_16, Namago\_17, Zhafia\_19, Statler\_17
- Track 4 : Tempo\_17
- Track 5 : Fizzles\_17
- Track 6 : Kelcole\_16, Fregley\_18, RobinRose\_18, CandC\_16, Romm\_18
- Track 7 : Marcie\_22
- Track 8 : Grassboy\_18, Kyva\_19, Squash\_19, Judebell\_19
- Track 9 : Hyperion\_15
- Track 10 : KillerQueen\_18
- Track 11 : Fransoyer\_19, RubyRalph\_19, SadLad\_20

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

The start number called the most often in the published annotations is 3, it was called in 30 of the 37 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BabyDotz\_16, EverythinBagel\_16, Fizzles\_17, Fransoyer\_19, Gazebo\_16, Grassboy\_18, Hyperion\_15, Jehoshaphat\_19, Judebell\_19, Kyva\_19, Llemily\_16, Lonelysoil\_16, Mashley\_14, Mila11\_19, MorillMayhem\_16, Namago\_17, Phabia\_17, Quammi\_15, Rowlf\_13, RubyRalph\_19, Rudy\_15, SadLad\_20, SallyK\_18, Sillytadpoles\_16, Squash\_19, Statler\_17, StrawberryJamm\_19, Tissue\_16, Viceroy\_16, Zagie\_17, Zhafia\_19,

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

- WheelerS25\_22,

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

- CandC\_16, Fregley\_18, Kelcole\_16, KillerQueen\_18, Marcie\_22, RobinRose\_18, Romm\_18, Tempo\_17,

## Summary by start number:

### Start 3:

- Found in 32 of 40 ( 80.0% ) of genes in pham
- Manual Annotations of this start: 30 of 37
- Called 96.9% of time when present
- Phage (with cluster) where this start called: BabyDotz\_16 (EG), EverythinBagel\_16 (EG), Fizzles\_17 (EG), Fransoyer\_19 (EG), Gazebo\_16 (EG), Grassboy\_18 (EG), Hyperion\_15 (EG), Jehoshaphat\_19 (EG), Judebell\_19 (EG), Kyva\_19 (EG), Llemily\_16 (EG), Lonelysoil\_16 (EG), Mashley\_14 (EG), Mila11\_19 (EG), MorillMayhem\_16 (EG), Namago\_17 (EG), Phabia\_17 (EG), Quammi\_15 (EG), Rowlf\_13 (EG), RubyRalph\_19 (EG), Rudy\_15 (EG), SadLad\_20 (EG), SallyK\_18 (EG), Sillytadpoles\_16 (EG), Squash\_19 (EG), Statler\_17 (EG), StrawberryJamm\_19 (EG), Tissue\_16 (EG), Viceroy\_16 (EG), Zagie\_17 (EG), Zhafia\_19 (EG),

### Start 4:

- Found in 8 of 40 ( 20.0% ) of genes in pham
- Manual Annotations of this start: 7 of 37
- Called 100.0% of time when present
- Phage (with cluster) where this start called: CandC\_16 (EG), Fregley\_18 (EG), Kelcole\_16 (EG), KillerQueen\_18 (EG), Marcie\_22 (EG), RobinRose\_18 (EG), Romm\_18 (EG), Tempo\_17 (EG),

### Start 5:

- Found in 24 of 40 ( 60.0% ) of genes in pham
- No Manual Annotations of this start.
- Called 4.2% of time when present
- Phage (with cluster) where this start called: WheelerS25\_22 (EG),

## Summary by clusters:

There is one cluster represented in this pham: EG

Info for manual annotations of cluster EG:

- Start number 3 was manually annotated 30 times for cluster EG.
- Start number 4 was manually annotated 7 times for cluster EG.

### **Gene Information:**

Gene: BabyDotz\_16 Start: 5998, Stop: 6159, Start Num: 3

Candidate Starts for BabyDotz\_16:

(Start: 3 @5998 has 30 MA's), (5, 6040),

Gene: CandC\_16 Start: 4783, Stop: 4941, Start Num: 4

Candidate Starts for CandC\_16:

(1, 4294), (Start: 4 @4783 has 7 MA's),

Gene: EverythinBagel\_16 Start: 6069, Stop: 6230, Start Num: 3

Candidate Starts for EverythinBagel\_16:

(Start: 3 @6069 has 30 MA's), (5, 6111),

Gene: Fizzles\_17 Start: 5599, Stop: 5763, Start Num: 3  
Candidate Starts for Fizzles\_17:  
(Start: 3 @5599 has 30 MA's), (9, 5692),

Gene: Fransoyer\_19 Start: 5958, Stop: 6128, Start Num: 3  
Candidate Starts for Fransoyer\_19:  
(Start: 3 @5958 has 30 MA's),

Gene: Fregley\_18 Start: 5321, Stop: 5479, Start Num: 4  
Candidate Starts for Fregley\_18:  
(1, 4832), (Start: 4 @5321 has 7 MA's),

Gene: Gazebo\_16 Start: 5889, Stop: 6050, Start Num: 3  
Candidate Starts for Gazebo\_16:  
(Start: 3 @5889 has 30 MA's), (5, 5931),

Gene: Grassboy\_18 Start: 6329, Stop: 6505, Start Num: 3  
Candidate Starts for Grassboy\_18:  
(Start: 3 @6329 has 30 MA's), (7, 6398),

Gene: Hyperion\_15 Start: 5586, Stop: 5747, Start Num: 3  
Candidate Starts for Hyperion\_15:  
(2, 5502), (Start: 3 @5586 has 30 MA's), (5, 5628),

Gene: Jehoshaphat\_19 Start: 6587, Stop: 6748, Start Num: 3  
Candidate Starts for Jehoshaphat\_19:  
(Start: 3 @6587 has 30 MA's), (5, 6629),

Gene: Judebell\_19 Start: 6113, Stop: 6289, Start Num: 3  
Candidate Starts for Judebell\_19:  
(Start: 3 @6113 has 30 MA's), (7, 6182),

Gene: Kelcole\_16 Start: 5174, Stop: 5332, Start Num: 4  
Candidate Starts for Kelcole\_16:  
(1, 4685), (Start: 4 @5174 has 7 MA's),

Gene: KillerQueen\_18 Start: 4990, Stop: 5148, Start Num: 4  
Candidate Starts for KillerQueen\_18:  
(Start: 4 @4990 has 7 MA's),

Gene: Kyva\_19 Start: 6364, Stop: 6540, Start Num: 3  
Candidate Starts for Kyva\_19:  
(Start: 3 @6364 has 30 MA's), (7, 6433),

Gene: Llemily\_16 Start: 5363, Stop: 5524, Start Num: 3  
Candidate Starts for Llemily\_16:  
(Start: 3 @5363 has 30 MA's), (5, 5405),

Gene: Lonelysoil\_16 Start: 5608, Stop: 5769, Start Num: 3  
Candidate Starts for Lonelysoil\_16:  
(Start: 3 @5608 has 30 MA's), (5, 5650),

Gene: Marcie\_22 Start: 5882, Stop: 6037, Start Num: 4  
Candidate Starts for Marcie\_22:  
(Start: 4 @5882 has 7 MA's),

Gene: Mashley\_14 Start: 5403, Stop: 5564, Start Num: 3  
Candidate Starts for Mashley\_14:  
(Start: 3 @5403 has 30 MA's), (5, 5445),

Gene: Mila11\_19 Start: 6478, Stop: 6639, Start Num: 3  
Candidate Starts for Mila11\_19:  
(Start: 3 @6478 has 30 MA's), (5, 6520),

Gene: MorillMayhem\_16 Start: 5411, Stop: 5572, Start Num: 3  
Candidate Starts for MorillMayhem\_16:  
(Start: 3 @5411 has 30 MA's), (5, 5453),

Gene: Namago\_17 Start: 5420, Stop: 5578, Start Num: 3  
Candidate Starts for Namago\_17:  
(Start: 3 @5420 has 30 MA's), (5, 5462), (6, 5471), (8, 5495),

Gene: Phabia\_17 Start: 5778, Stop: 5936, Start Num: 3  
Candidate Starts for Phabia\_17:  
(Start: 3 @5778 has 30 MA's), (5, 5820), (6, 5829), (8, 5853),

Gene: Quammi\_15 Start: 5352, Stop: 5513, Start Num: 3  
Candidate Starts for Quammi\_15:  
(Start: 3 @5352 has 30 MA's), (5, 5394),

Gene: RobinRose\_18 Start: 5009, Stop: 5167, Start Num: 4  
Candidate Starts for RobinRose\_18:  
(1, 4520), (Start: 4 @5009 has 7 MA's),

Gene: Romm\_18 Start: 5009, Stop: 5167, Start Num: 4  
Candidate Starts for Romm\_18:  
(1, 4520), (Start: 4 @5009 has 7 MA's),

Gene: Rowlf\_13 Start: 5118, Stop: 5279, Start Num: 3  
Candidate Starts for Rowlf\_13:  
(Start: 3 @5118 has 30 MA's), (5, 5160),

Gene: RubyRalph\_19 Start: 5892, Stop: 6062, Start Num: 3  
Candidate Starts for RubyRalph\_19:  
(Start: 3 @5892 has 30 MA's),

Gene: Rudy\_15 Start: 5352, Stop: 5513, Start Num: 3  
Candidate Starts for Rudy\_15:  
(Start: 3 @5352 has 30 MA's), (5, 5394),

Gene: SadLad\_20 Start: 6349, Stop: 6519, Start Num: 3  
Candidate Starts for SadLad\_20:  
(Start: 3 @6349 has 30 MA's),

Gene: SallyK\_18 Start: 6513, Stop: 6674, Start Num: 3

Candidate Starts for SallyK\_18:  
(Start: 3 @6513 has 30 MA's), (5, 6555),

Gene: Sillytadpoles\_16 Start: 5350, Stop: 5511, Start Num: 3  
Candidate Starts for Sillytadpoles\_16:  
(Start: 3 @5350 has 30 MA's), (5, 5392),

Gene: Squash\_19 Start: 6369, Stop: 6545, Start Num: 3  
Candidate Starts for Squash\_19:  
(Start: 3 @6369 has 30 MA's), (7, 6438),

Gene: Statler\_17 Start: 5886, Stop: 6044, Start Num: 3  
Candidate Starts for Statler\_17:  
(Start: 3 @5886 has 30 MA's), (5, 5928), (6, 5937), (8, 5961),

Gene: StrawberryJamm\_19 Start: 5652, Stop: 5813, Start Num: 3  
Candidate Starts for StrawberryJamm\_19:  
(Start: 3 @5652 has 30 MA's), (5, 5694),

Gene: Tempo\_17 Start: 5201, Stop: 5359, Start Num: 4  
Candidate Starts for Tempo\_17:  
(1, 4712), (Start: 4 @5201 has 7 MA's),

Gene: Tissue\_16 Start: 5718, Stop: 5876, Start Num: 3  
Candidate Starts for Tissue\_16:  
(Start: 3 @5718 has 30 MA's), (5, 5760), (6, 5769), (8, 5793),

Gene: Viceroy\_16 Start: 5352, Stop: 5513, Start Num: 3  
Candidate Starts for Viceroy\_16:  
(Start: 3 @5352 has 30 MA's), (5, 5394),

Gene: WheelerS25\_22 Start: 7139, Stop: 7255, Start Num: 5  
Candidate Starts for WheelerS25\_22:  
(Start: 3 @7097 has 30 MA's), (5, 7139), (6, 7148), (8, 7172),

Gene: Zagie\_17 Start: 5855, Stop: 6016, Start Num: 3  
Candidate Starts for Zagie\_17:  
(Start: 3 @5855 has 30 MA's), (5, 5897),

Gene: Zhafia\_19 Start: 6090, Stop: 6248, Start Num: 3  
Candidate Starts for Zhafia\_19:  
(Start: 3 @6090 has 30 MA's), (5, 6132), (6, 6141), (8, 6165),