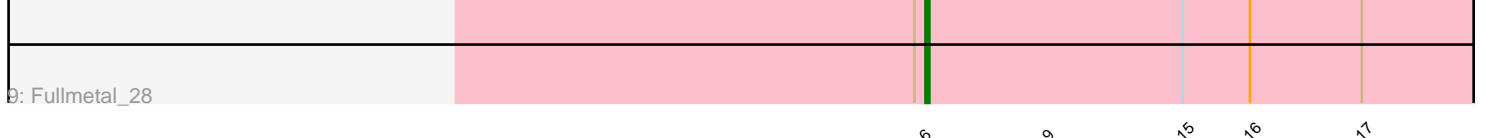
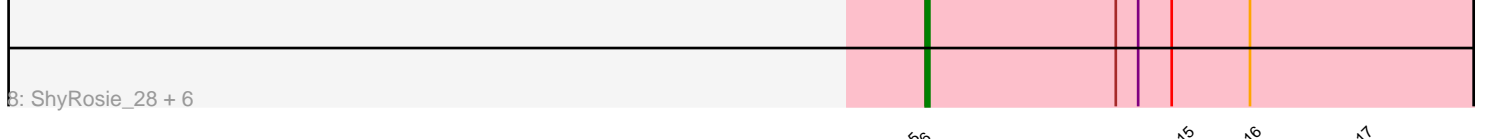
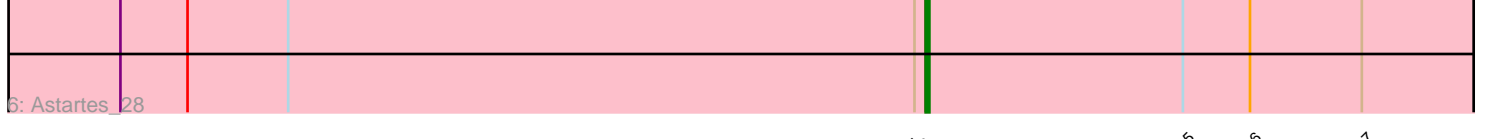
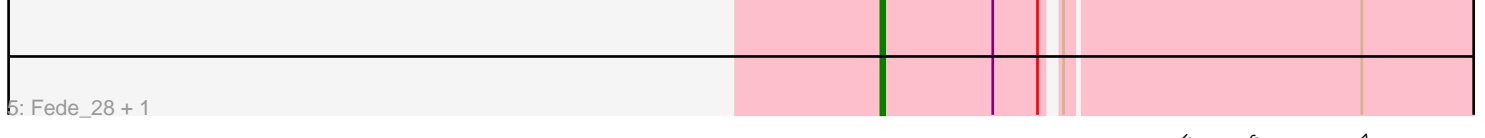
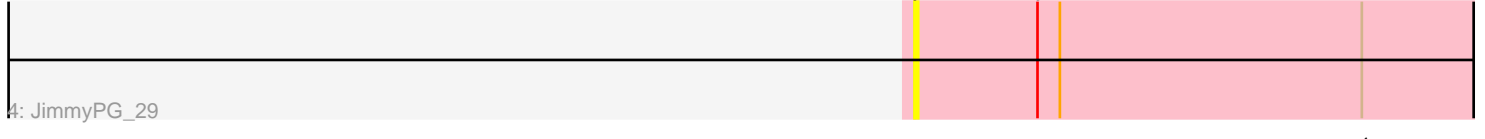
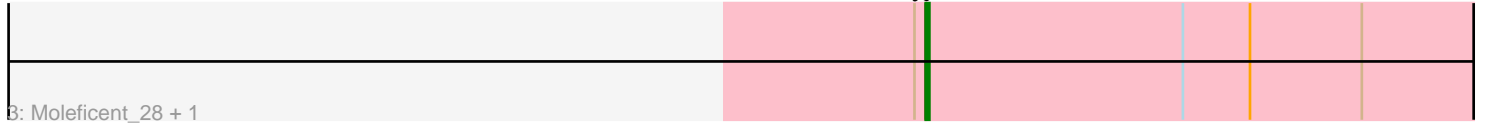
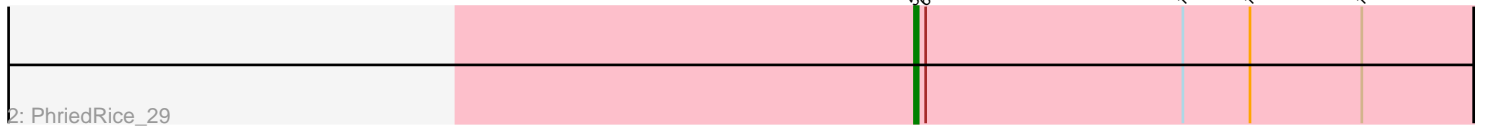
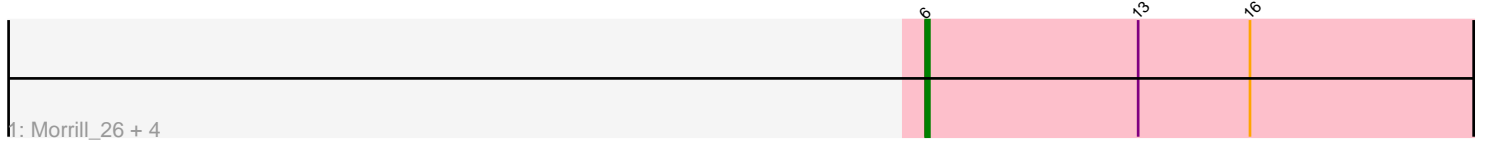


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Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. 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 207139 Report

This analysis was run 02/22/25 on database version 588.

Pham number 207139 has 26 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Morrill\_26, ThirteenKH\_26, Yafa\_27, Atraxi\_26, TrippleS\_27
- Track 2 : PhriedRice\_29
- Track 3 : Moleficent\_28, RicoCaldo\_28
- Track 4 : JimmyPG\_29
- Track 5 : Fede\_28, Kosier\_28
- Track 6 : Astartes\_28
- Track 7 : Phracted\_28, Pharky\_28, StagePhright\_28, Phedro\_28
- Track 8 : ShyRosie\_28, JordanFarm\_29, Truong\_28, Barroma\_27, Ashton\_29, Waterlily\_29, AloeVera\_29
- Track 9 : Fullmetal\_28
- Track 10 : Mazun\_29
- Track 11 : Akoni\_28

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

The start number called the most often in the published annotations is 6, it was called in 14 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Akoni\_28, AloeVera\_29, Ashton\_29, Astartes\_28, Atraxi\_26, Barroma\_27, Fullmetal\_28, JordanFarm\_29, Mazun\_29, Moleficent\_28, Morrill\_26, RicoCaldo\_28, ShyRosie\_28, ThirteenKH\_26, TrippleS\_27, Truong\_28, Waterlily\_29, Yafa\_27,

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

- Pharky\_28, Phedro\_28, Phracted\_28, PhriedRice\_29, StagePhright\_28,

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

- Fede\_28, JimmyPG\_29, Kosier\_28,

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

Start 4:

- Found in 2 of 26 ( 7.7% ) of genes in pham
- Manual Annotations of this start: 1 of 20

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fede\_28 (EK2), Kosier\_28 (EK2),

Start 5:

- Found in 10 of 26 ( 38.5% ) of genes in pham
- Manual Annotations of this start: 5 of 20
- Called 60.0% of time when present
- Phage (with cluster) where this start called: JimmyPG\_29 (EK2), Pharky\_28 (EK2), Phedro\_28 (EK2), Phracted\_28 (EK2), PhriedRice\_29 (EK2), StagePhright\_28 (EK2),

Start 6:

- Found in 23 of 26 ( 88.5% ) of genes in pham
- Manual Annotations of this start: 14 of 20
- Called 78.3% of time when present
- Phage (with cluster) where this start called: Akoni\_28 (EK2), AloeVera\_29 (EK2), Ashton\_29 (EK2), Astartes\_28 (EK2), Atraxi\_26 (EK2), Barroma\_27 (EK2), Fullmetal\_28 (EK2), JordanFarm\_29 (EK2), Mazun\_29 (EK2), Moleficent\_28 (EK2), Morrill\_26 (EK2), RicoCaldo\_28 (EK2), ShyRosie\_28 (EK2), ThirteenKH\_26 (EK2), TrippleS\_27 (EK2), Truong\_28 (EK2), Waterlily\_29 (EK2), Yafa\_27 (EK2),

### Summary by clusters:

There is one cluster represented in this pham: EK2

Info for manual annotations of cluster EK2:

- Start number 4 was manually annotated 1 time for cluster EK2.
- Start number 5 was manually annotated 5 times for cluster EK2.
- Start number 6 was manually annotated 14 times for cluster EK2.

### Gene Information:

Gene: Akoni\_28 Start: 15990, Stop: 15841, Start Num: 6

Candidate Starts for Akoni\_28:

(Start: 6 @15990 has 14 MA's), (12, 15939), (13, 15933), (14, 15924), (16, 15903),

Gene: AloeVera\_29 Start: 16202, Stop: 16053, Start Num: 6

Candidate Starts for AloeVera\_29:

(Start: 6 @16202 has 14 MA's), (12, 16151), (13, 16145), (14, 16136), (16, 16115),

Gene: Ashton\_29 Start: 16204, Stop: 16055, Start Num: 6

Candidate Starts for Ashton\_29:

(Start: 6 @16204 has 14 MA's), (12, 16153), (13, 16147), (14, 16138), (16, 16117),

Gene: Astartes\_28 Start: 16251, Stop: 16102, Start Num: 6

Candidate Starts for Astartes\_28:

(1, 16467), (2, 16449), (3, 16422), (Start: 5 @16254 has 5 MA's), (Start: 6 @16251 has 14 MA's), (15, 16182), (16, 16164), (17, 16134),

Gene: Atraxi\_26 Start: 16037, Stop: 15882, Start Num: 6

Candidate Starts for Atraxi\_26:

(Start: 6 @16037 has 14 MA's), (13, 15980), (16, 15950),

Gene: Barroma\_27 Start: 15990, Stop: 15841, Start Num: 6

Candidate Starts for Barroma\_27:

(Start: 6 @15990 has 14 MA's), (12, 15939), (13, 15933), (14, 15924), (16, 15903),

Gene: Fede\_28 Start: 15577, Stop: 15392, Start Num: 4

Candidate Starts for Fede\_28:

(Start: 4 @15577 has 1 MA's), (7, 15547), (8, 15535), (11, 15532), (17, 15454),

Gene: Fullmetal\_28 Start: 16111, Stop: 15962, Start Num: 6

Candidate Starts for Fullmetal\_28:

(Start: 5 @16114 has 5 MA's), (Start: 6 @16111 has 14 MA's), (15, 16042), (16, 16024), (17, 15994),

Gene: JimmyPG\_29 Start: 16383, Stop: 16231, Start Num: 5

Candidate Starts for JimmyPG\_29:

(Start: 5 @16383 has 5 MA's), (8, 16350), (10, 16344), (17, 16263),

Gene: JordanFarm\_29 Start: 16202, Stop: 16053, Start Num: 6

Candidate Starts for JordanFarm\_29:

(Start: 6 @16202 has 14 MA's), (12, 16151), (13, 16145), (14, 16136), (16, 16115),

Gene: Kosier\_28 Start: 15578, Stop: 15393, Start Num: 4

Candidate Starts for Kosier\_28:

(Start: 4 @15578 has 1 MA's), (7, 15548), (8, 15536), (11, 15533), (17, 15455),

Gene: Mazun\_29 Start: 16429, Stop: 16280, Start Num: 6

Candidate Starts for Mazun\_29:

(Start: 6 @16429 has 14 MA's), (9, 16396), (15, 16360), (16, 16342), (17, 16312),

Gene: Moleficent\_28 Start: 16132, Stop: 15983, Start Num: 6

Candidate Starts for Moleficent\_28:

(Start: 5 @16135 has 5 MA's), (Start: 6 @16132 has 14 MA's), (15, 16063), (16, 16045), (17, 16015),

Gene: Morrill\_26 Start: 16030, Stop: 15875, Start Num: 6

Candidate Starts for Morrill\_26:

(Start: 6 @16030 has 14 MA's), (13, 15973), (16, 15943),

Gene: Pharky\_28 Start: 16106, Stop: 15954, Start Num: 5

Candidate Starts for Pharky\_28:

(Start: 5 @16106 has 5 MA's), (Start: 6 @16103 has 14 MA's), (15, 16034), (16, 16016), (17, 15986),

Gene: Phedro\_28 Start: 16106, Stop: 15954, Start Num: 5

Candidate Starts for Phedro\_28:

(Start: 5 @16106 has 5 MA's), (Start: 6 @16103 has 14 MA's), (15, 16034), (16, 16016), (17, 15986),

Gene: Phracted\_28 Start: 16106, Stop: 15954, Start Num: 5

Candidate Starts for Phracted\_28:

(Start: 5 @16106 has 5 MA's), (Start: 6 @16103 has 14 MA's), (15, 16034), (16, 16016), (17, 15986),

Gene: PhriedRice\_29 Start: 16222, Stop: 16070, Start Num: 5

Candidate Starts for PhriedRice\_29:

(Start: 5 @16222 has 5 MA's), (Start: 6 @16219 has 14 MA's), (15, 16150), (16, 16132), (17, 16102),

Gene: RicoCaldo\_28 Start: 16138, Stop: 15989, Start Num: 6  
Candidate Starts for RicoCaldo\_28:  
(Start: 5 @16141 has 5 MA's), (Start: 6 @16138 has 14 MA's), (15, 16069), (16, 16051), (17, 16021),

Gene: ShyRosie\_28 Start: 16210, Stop: 16061, Start Num: 6  
Candidate Starts for ShyRosie\_28:  
(Start: 6 @16210 has 14 MA's), (12, 16159), (13, 16153), (14, 16144), (16, 16123),

Gene: StagePhright\_28 Start: 16106, Stop: 15954, Start Num: 5  
Candidate Starts for StagePhright\_28:  
(Start: 5 @16106 has 5 MA's), (Start: 6 @16103 has 14 MA's), (15, 16034), (16, 16016), (17, 15986),

Gene: ThirteenKH\_26 Start: 16029, Stop: 15874, Start Num: 6  
Candidate Starts for ThirteenKH\_26:  
(Start: 6 @16029 has 14 MA's), (13, 15972), (16, 15942),

Gene: TrippleS\_27 Start: 16159, Stop: 16004, Start Num: 6  
Candidate Starts for TrippleS\_27:  
(Start: 6 @16159 has 14 MA's), (13, 16102), (16, 16072),

Gene: Truong\_28 Start: 15990, Stop: 15841, Start Num: 6  
Candidate Starts for Truong\_28:  
(Start: 6 @15990 has 14 MA's), (12, 15939), (13, 15933), (14, 15924), (16, 15903),

Gene: Waterlily\_29 Start: 16244, Stop: 16095, Start Num: 6  
Candidate Starts for Waterlily\_29:  
(Start: 6 @16244 has 14 MA's), (12, 16193), (13, 16187), (14, 16178), (16, 16157),

Gene: Yafa\_27 Start: 15914, Stop: 15759, Start Num: 6  
Candidate Starts for Yafa\_27:  
(Start: 6 @15914 has 14 MA's), (13, 15857), (16, 15827),