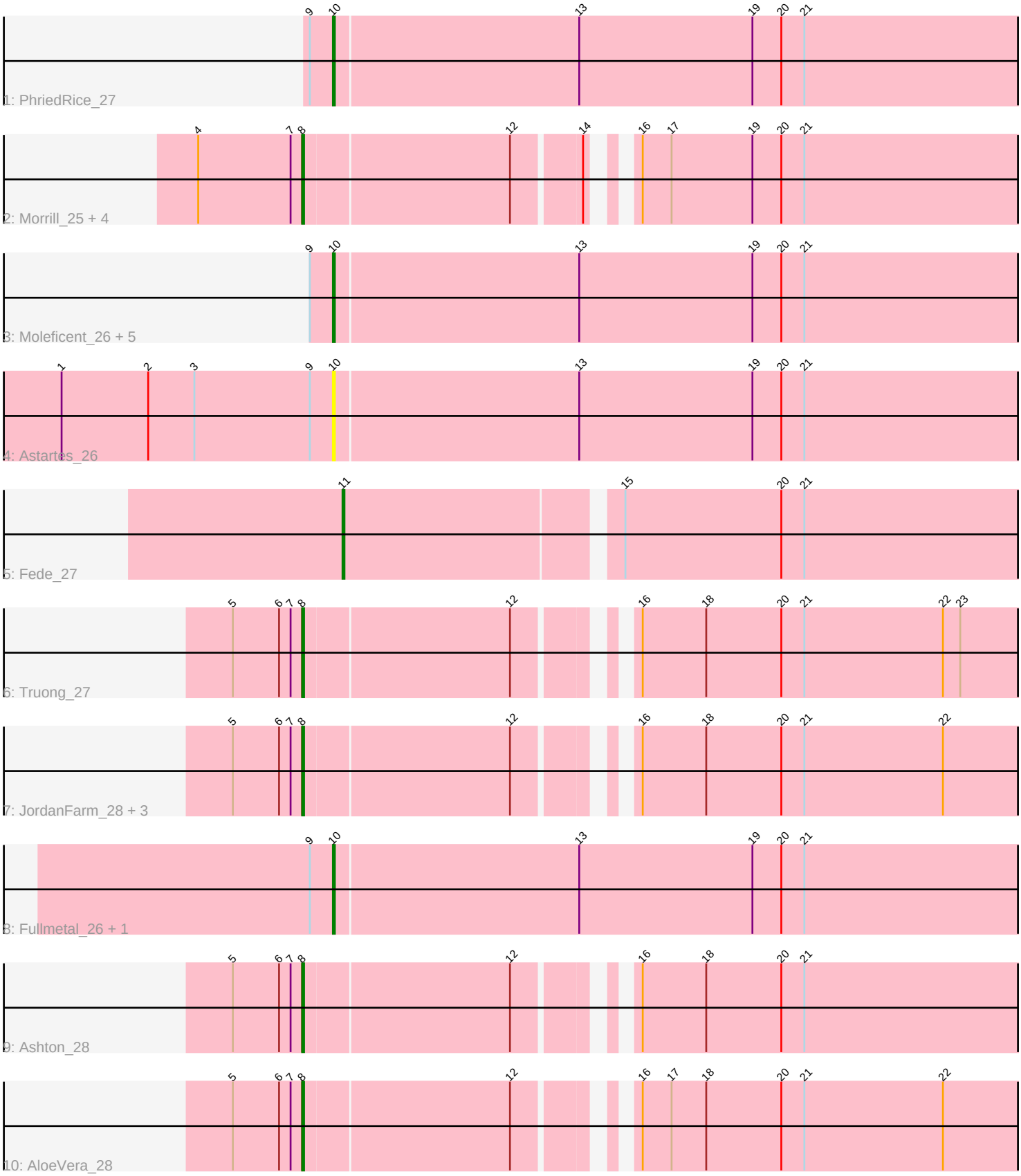
Pham 4316


9 10 13 19 20 21
1: PhriedRice_27
4 7 8 12 14 16 17 19 20 21
2: Morrill_25 + 4
9 10 13 19 20 21
3: Moleficent_26 + 5
1 2 3 9 10 13 19 20 21
4: Astartes_26
11 15 20 21
5: Fede_27
5 6 7 8 12 16 18 20 21 22 23
6: Truong_27
5 6 7 8 12 16 18 20 21 22
7: JordanFarm_28 + 3
9 10 13 19 20 21
8: Fullmetal_26 + 1
5 6 7 8 12 16 18 20 21
9: Ashton_28
5 6 7 8 12 16 17 18 20 21 22
10: AloeVera_28

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 4316 Report

This analysis was run 04/28/24 on database version 559.

Pham number 4316 has 23 members, 7 are drafts.

Phages represented in each track:
• Track 1 : PhriedRice_27
• Track 2 : Morrill_25, ThirteenKH_25, Yafa_26, Atraxi_25, TrippleS_27
• Track 3 : Moleficent_26, Phractured_26, Pharky_26, StagePhright_26, Mazun_27, Phedro_26
• Track 4 : Astartes_26
• Track 5 : Fede_27
• Track 6 : Truong_27
• Track 7 : JordanFarm_28, Barroma_27, Waterlily_28, Akoni_27
• Track 8 : Fullmetal_26, RicoCaldo_26
• Track 9 : Ashton_28
• Track 10 : AloeVera_28

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

The start number called the most often in the published annotations is 10, it was called in 8 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Astartes_26, Fullmetal_26, Mazun_27, Moleficent_26, Pharky_26, Phedro_26, Phractured_26, PhriedRice_27, RicoCaldo_26, StagePhright_26,

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

Genes that do not have the "Most Annotated" start:
• Akoni_27, AloeVera_28, Ashton_28, Atraxi_25, Barroma_27, Fede_27, JordanFarm_28, Morrill_25, ThirteenKH_25, TrippleS_27, Truong_27, Waterlily_28, Yafa_26,

Summary by start number:

Start 8:
• Found in 12 of 23 (52.2%) of genes in pham
• Manual Annotations of this start: 7 of 16

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Akoni_27 (EK2), AloeVera_28 (EK2), Ashton_28 (EK2), Atraxi_25 (EK2), Barroma_27 (EK2), JordanFarm_28 (EK2), Morrill_25 (EK2), ThirteenKH_25 (EK2), TrippleS_27 (EK2), Truong_27 (EK2), Waterlily_28 (EK2), Yafa_26 (EK2),

Start 10:
• Found in 10 of 23 (43.5%) of genes in pham
• Manual Annotations of this start: 8 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Astartes_26 (EK2), Fullmetal_26 (EK2), Mazun_27 (EK2), Moleficent_26 (EK2), Pharky_26 (EK2), Phedro_26 (EK2), Phractured_26 (EK2), PhriedRice_27 (EK2), RicoCaldo_26 (EK2), StagePhright_26 (EK2),

Start 11:
• Found in 1 of 23 (4.3%) of genes in pham
• Manual Annotations of this start: 1 of 16
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Fede_27 (EK2),

Summary by clusters:

There is one cluster represented in this pham: EK2

Info for manual annotations of cluster EK2:
•Start number 8 was manually annotated 7 times for cluster EK2.
•Start number 10 was manually annotated 8 times for cluster EK2.
•Start number 11 was manually annotated 1 time for cluster EK2.

Gene Information:

Gene: Akoni_27 Start: 15860, Stop: 15480, Start Num: 8
Candidate Starts for Akoni_27:
(5, 15896), (6, 15872), (7, 15866), (Start: 8 @15860 has 7 MA's), (12, 15755), (16, 15710), (18, 15677), (20, 15638), (21, 15626), (22, 15554),

Gene: AloeVera_28 Start: 16072, Stop: 15692, Start Num: 8
Candidate Starts for AloeVera_28:
(5, 16108), (6, 16084), (7, 16078), (Start: 8 @16072 has 7 MA's), (12, 15967), (16, 15922), (17, 15907), (18, 15889), (20, 15850), (21, 15838), (22, 15766),

Gene: Ashton_28 Start: 16074, Stop: 15691, Start Num: 8
Candidate Starts for Ashton_28:
(5, 16110), (6, 16086), (7, 16080), (Start: 8 @16074 has 7 MA's), (12, 15969), (16, 15924), (18, 15891), (20, 15852), (21, 15840),

Gene: Astartes_26 Start: 15843, Stop: 15451, Start Num: 10
Candidate Starts for Astartes_26:
(1, 15984), (2, 15939), (3, 15915), (9, 15855), (Start: 10 @15843 has 8 MA's), (13, 15717), (19, 15627), (20, 15612), (21, 15600),

Gene: Atraxi_25 Start: 15907, Stop: 15524, Start Num: 8
Candidate Starts for Atraxi_25:
(4, 15961), (7, 15913), (Start: 8 @15907 has 7 MA's), (12, 15802), (14, 15769), (16, 15757), (17, 15742), (19, 15700), (20, 15685), (21, 15673),

Gene: Barroma_27 Start: 15860, Stop: 15480, Start Num: 8
Candidate Starts for Barroma_27:
(5, 15896), (6, 15872), (7, 15866), (Start: 8 @15860 has 7 MA's), (12, 15755), (16, 15710), (18, 15677), (20, 15638), (21, 15626), (22, 15554),

Gene: Fede_27 Start: 15441, Stop: 15064, Start Num: 11
Candidate Starts for Fede_27:
(Start: 11 @15441 has 1 MA's), (15, 15306), (20, 15225), (21, 15213),

Gene: Fullmetal_26 Start: 15703, Stop: 15311, Start Num: 10
Candidate Starts for Fullmetal_26:
(9, 15715), (Start: 10 @15703 has 8 MA's), (13, 15577), (19, 15487), (20, 15472), (21, 15460),

Gene: JordanFarm_28 Start: 16072, Stop: 15692, Start Num: 8
Candidate Starts for JordanFarm_28:
(5, 16108), (6, 16084), (7, 16078), (Start: 8 @16072 has 7 MA's), (12, 15967), (16, 15922), (18, 15889), (20, 15850), (21, 15838), (22, 15766),

Gene: Mazun_27 Start: 16021, Stop: 15629, Start Num: 10
Candidate Starts for Mazun_27:
(9, 16033), (Start: 10 @16021 has 8 MA's), (13, 15895), (19, 15805), (20, 15790), (21, 15778),

Gene: Moleficent_26 Start: 15724, Stop: 15332, Start Num: 10
Candidate Starts for Moleficent_26:
(9, 15736), (Start: 10 @15724 has 8 MA's), (13, 15598), (19, 15508), (20, 15493), (21, 15481),

Gene: Morrill_25 Start: 15900, Stop: 15517, Start Num: 8
Candidate Starts for Morrill_25:
(4, 15954), (7, 15906), (Start: 8 @15900 has 7 MA's), (12, 15795), (14, 15762), (16, 15750), (17, 15735), (19, 15693), (20, 15678), (21, 15666),

Gene: Pharky_26 Start: 15695, Stop: 15303, Start Num: 10
Candidate Starts for Pharky_26:
(9, 15707), (Start: 10 @15695 has 8 MA's), (13, 15569), (19, 15479), (20, 15464), (21, 15452),

Gene: Phedro_26 Start: 15695, Stop: 15303, Start Num: 10
Candidate Starts for Phedro_26:
(9, 15707), (Start: 10 @15695 has 8 MA's), (13, 15569), (19, 15479), (20, 15464), (21, 15452),

Gene: Phractured_26 Start: 15695, Stop: 15303, Start Num: 10
Candidate Starts for Phractured_26:
(9, 15707), (Start: 10 @15695 has 8 MA's), (13, 15569), (19, 15479), (20, 15464), (21, 15452),

Gene: PhriedRice_27 Start: 15811, Stop: 15422, Start Num: 10
Candidate Starts for PhriedRice_27:
(9, 15823), (Start: 10 @15811 has 8 MA's), (13, 15685), (19, 15595), (20, 15580), (21, 15568),

Gene: RicoCaldo_26 Start: 15730, Stop: 15338, Start Num: 10
Candidate Starts for RicoCaldo_26:
(9, 15742), (Start: 10 @15730 has 8 MA's), (13, 15604), (19, 15514), (20, 15499), (21, 15487),

Gene: StagePhright_26 Start: 15695, Stop: 15303, Start Num: 10
Candidate Starts for StagePhright_26:
(9, 15707), (Start: 10 @15695 has 8 MA's), (13, 15569), (19, 15479), (20, 15464), (21, 15452),

Gene: ThirteenKH_25 Start: 15899, Stop: 15516, Start Num: 8
Candidate Starts for ThirteenKH_25:
(4, 15953), (7, 15905), (Start: 8 @15899 has 7 MA's), (12, 15794), (14, 15761), (16, 15749), (17, 15734), (19, 15692), (20, 15677), (21, 15665),

Gene: TrippleS_27 Start: 16029, Stop: 15646, Start Num: 8
Candidate Starts for TrippleS_27:
(4, 16083), (7, 16035), (Start: 8 @16029 has 7 MA's), (12, 15924), (14, 15891), (16, 15879), (17, 15864), (19, 15822), (20, 15807), (21, 15795),

Gene: Truong_27 Start: 15860, Stop: 15480, Start Num: 8
Candidate Starts for Truong_27:
(5, 15896), (6, 15872), (7, 15866), (Start: 8 @15860 has 7 MA's), (12, 15755), (16, 15710), (18, 15677), (20, 15638), (21, 15626), (22, 15554), (23, 15545),

Gene: Waterlily_28 Start: 16114, Stop: 15734, Start Num: 8
Candidate Starts for Waterlily_28:
(5, 16150), (6, 16126), (7, 16120), (Start: 8 @16114 has 7 MA's), (12, 16009), (16, 15964), (18, 15931), (20, 15892), (21, 15880), (22, 15808),

Gene: Yafa_26 Start: 15784, Stop: 15398, Start Num: 8
Candidate Starts for Yafa_26:
(4, 15838), (7, 15790), (Start: 8 @15784 has 7 MA's), (12, 15679), (14, 15646), (16, 15634), (17, 15619), (19, 15577), (20, 15562), (21, 15550),