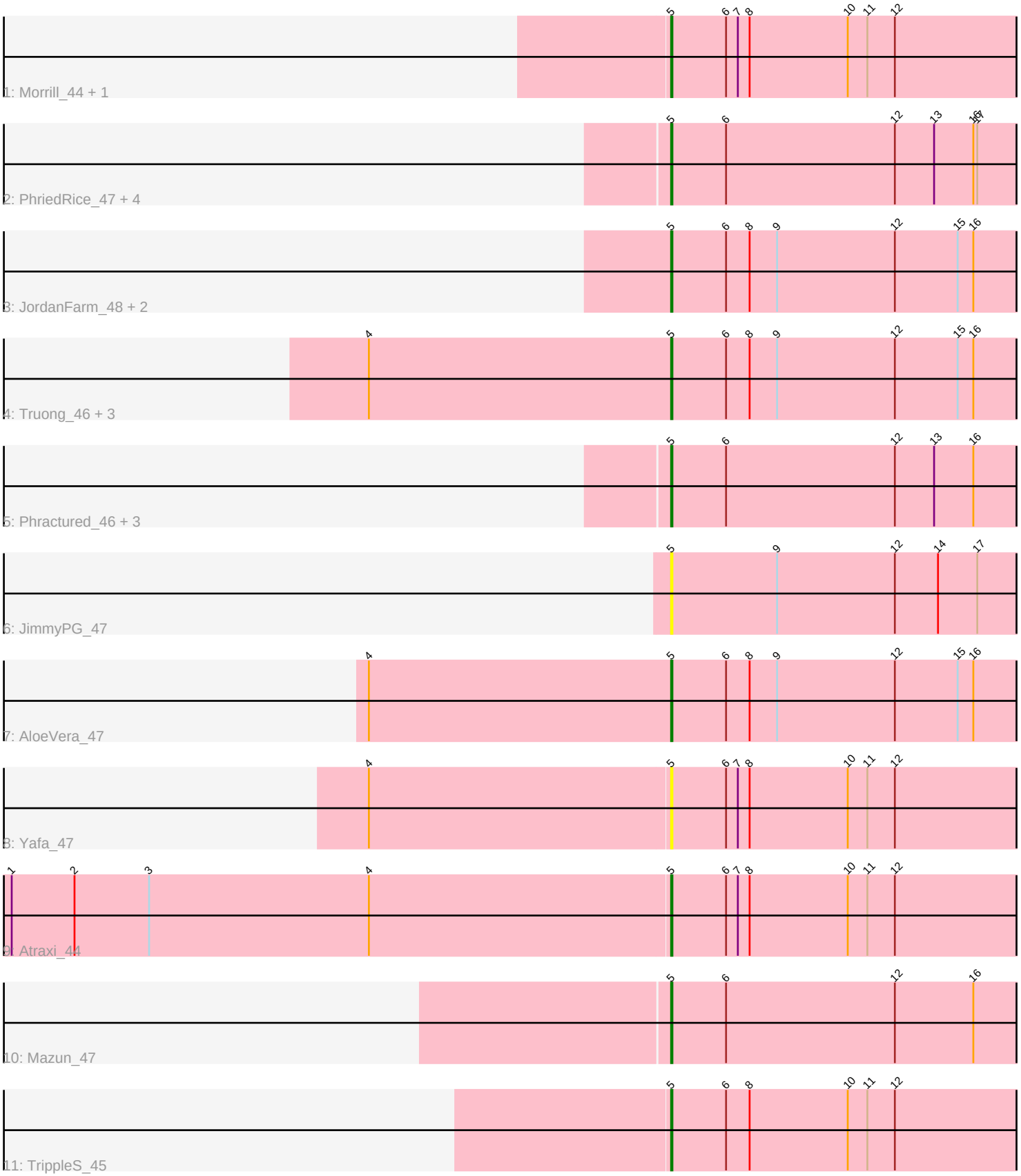
Pham 220051


1: Morrill_44 + 1
2: PhriedRice_47 + 4
3: JordanFarm_48 + 2
4: Truong_46 + 3
5: Phractured_46 + 3
6: JimmyPG_47
7: AloeVera_47
8: Yafa_47
9: Atraxi_44
10: Mazun_47
11: TrippleS_45

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 220051 Report

This analysis was run 03/28/25 on database version 593.

Pham number 220051 has 24 members, 5 are drafts.

Phages represented in each track:
• Track 1 : Morrill_44, ThirteenKH_46
• Track 2 : PhriedRice_47, Astartes_46, RicoCaldo_46, Moleficent_46, Fullmetal_46
• Track 3 : JordanFarm_48, Ashton_47, Waterlily_49
• Track 4 : Truong_46, ShyRosie_48, Barroma_45, Akoni_46
• Track 5 : Phractured_46, Pharky_46, Phedro_46, StagePhright_46
• Track 6 : JimmyPG_47
• Track 7 : AloeVera_47
• Track 8 : Yafa_47
• Track 9 : Atraxi_44
• Track 10 : Mazun_47
• Track 11 : TrippleS_45

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

The start number called the most often in the published annotations is 5, it was called in 19 of the 19 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Akoni_46, AloeVera_47, Ashton_47, Astartes_46, Atraxi_44, Barroma_45, Fullmetal_46, JimmyPG_47, JordanFarm_48, Mazun_47, Moleficent_46, Morrill_44, Pharky_46, Phedro_46, Phractured_46, PhriedRice_47, RicoCaldo_46, ShyRosie_48, StagePhright_46, ThirteenKH_46, TrippleS_45, Truong_46, Waterlily_49, Yafa_47,

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 5:
• Found in 24 of 24 (100.0%) of genes in pham

• Manual Annotations of this start: 19 of 19
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Akoni_46 (EK2), AloeVera_47 (EK2), Ashton_47 (EK2), Astartes_46 (EK2), Atraxi_44 (EK2), Barroma_45 (EK2), Fullmetal_46 (EK2), JimmyPG_47 (EK2), JordanFarm_48 (EK2), Mazun_47 (EK2), Moleficent_46 (EK2), Morrill_44 (EK2), Pharky_46 (EK2), Phedro_46 (EK2), Phractured_46 (EK2), PhriedRice_47 (EK2), RicoCaldo_46 (EK2), ShyRosie_48 (EK2), StagePhright_46 (EK2), ThirteenKH_46 (EK2), TrippleS_45 (EK2), Truong_46 (EK2), Waterlily_49 (EK2), Yafa_47 (EK2),

Summary by clusters:

There is one cluster represented in this pham: EK2

Info for manual annotations of cluster EK2:
•Start number 5 was manually annotated 19 times for cluster EK2.

Gene Information:

Gene: Akoni_46 Start: 47955, Stop: 48233, Start Num: 5
Candidate Starts for Akoni_46:
(4, 47724), (Start: 5 @47955 has 19 MA's), (6, 47997), (8, 48015), (9, 48036), (12, 48126), (15, 48174), (16, 48186),

Gene: AloeVera_47 Start: 48168, Stop: 48446, Start Num: 5
Candidate Starts for AloeVera_47:
(4, 47937), (Start: 5 @48168 has 19 MA's), (6, 48210), (8, 48228), (9, 48249), (12, 48339), (15, 48387), (16, 48399),

Gene: Ashton_47 Start: 48167, Stop: 48445, Start Num: 5
Candidate Starts for Ashton_47:
(Start: 5 @48167 has 19 MA's), (6, 48209), (8, 48227), (9, 48248), (12, 48338), (15, 48386), (16, 48398),

Gene: Astartes_46 Start: 47708, Stop: 47983, Start Num: 5
Candidate Starts for Astartes_46:
(Start: 5 @47708 has 19 MA's), (6, 47750), (12, 47879), (13, 47909), (16, 47939), (17, 47942),

Gene: Atraxi_44 Start: 47500, Stop: 47775, Start Num: 5
Candidate Starts for Atraxi_44:
(1, 46999), (2, 47047), (3, 47104), (4, 47272), (Start: 5 @47500 has 19 MA's), (6, 47542), (7, 47551), (8, 47560), (10, 47635), (11, 47650), (12, 47671),

Gene: Barroma_45 Start: 47957, Stop: 48235, Start Num: 5
Candidate Starts for Barroma_45:
(4, 47726), (Start: 5 @47957 has 19 MA's), (6, 47999), (8, 48017), (9, 48038), (12, 48128), (15, 48176), (16, 48188),

Gene: Fullmetal_46 Start: 48043, Stop: 48318, Start Num: 5
Candidate Starts for Fullmetal_46:
(Start: 5 @48043 has 19 MA's), (6, 48085), (12, 48214), (13, 48244), (16, 48274), (17, 48277),

Gene: JimmyPG_47 Start: 48402, Stop: 48677, Start Num: 5
Candidate Starts for JimmyPG_47:
(Start: 5 @48402 has 19 MA's), (9, 48483), (12, 48573), (14, 48606), (17, 48636),

Gene: JordanFarm_48 Start: 48168, Stop: 48446, Start Num: 5
Candidate Starts for JordanFarm_48:
(Start: 5 @48168 has 19 MA's), (6, 48210), (8, 48228), (9, 48249), (12, 48339), (15, 48387), (16, 48399),

Gene: Mazun_47 Start: 48446, Stop: 48721, Start Num: 5
Candidate Starts for Mazun_47:
(Start: 5 @48446 has 19 MA's), (6, 48488), (12, 48617), (16, 48677),

Gene: Moleficent_46 Start: 48050, Stop: 48325, Start Num: 5
Candidate Starts for Moleficent_46:
(Start: 5 @48050 has 19 MA's), (6, 48092), (12, 48221), (13, 48251), (16, 48281), (17, 48284),

Gene: Morrill_44 Start: 47480, Stop: 47755, Start Num: 5
Candidate Starts for Morrill_44:
(Start: 5 @47480 has 19 MA's), (6, 47522), (7, 47531), (8, 47540), (10, 47615), (11, 47630), (12, 47651),

Gene: Pharky_46 Start: 48046, Stop: 48321, Start Num: 5
Candidate Starts for Pharky_46:
(Start: 5 @48046 has 19 MA's), (6, 48088), (12, 48217), (13, 48247), (16, 48277),

Gene: Phedro_46 Start: 48046, Stop: 48321, Start Num: 5
Candidate Starts for Phedro_46:
(Start: 5 @48046 has 19 MA's), (6, 48088), (12, 48217), (13, 48247), (16, 48277),

Gene: Phractured_46 Start: 48046, Stop: 48321, Start Num: 5
Candidate Starts for Phractured_46:
(Start: 5 @48046 has 19 MA's), (6, 48088), (12, 48217), (13, 48247), (16, 48277),

Gene: PhriedRice_47 Start: 48150, Stop: 48425, Start Num: 5
Candidate Starts for PhriedRice_47:
(Start: 5 @48150 has 19 MA's), (6, 48192), (12, 48321), (13, 48351), (16, 48381), (17, 48384),

Gene: RicoCaldo_46 Start: 48128, Stop: 48403, Start Num: 5
Candidate Starts for RicoCaldo_46:
(Start: 5 @48128 has 19 MA's), (6, 48170), (12, 48299), (13, 48329), (16, 48359), (17, 48362),

Gene: ShyRosie_48 Start: 48177, Stop: 48455, Start Num: 5
Candidate Starts for ShyRosie_48:
(4, 47946), (Start: 5 @48177 has 19 MA's), (6, 48219), (8, 48237), (9, 48258), (12, 48348), (15, 48396), (16, 48408),

Gene: StagePhright_46 Start: 48046, Stop: 48321, Start Num: 5
Candidate Starts for StagePhright_46:
(Start: 5 @48046 has 19 MA's), (6, 48088), (12, 48217), (13, 48247), (16, 48277),

Gene: ThirteenKH_46 Start: 47490, Stop: 47765, Start Num: 5

Candidate Starts for ThirteenKH_46:
(Start: 5 @47490 has 19 MA's), (6, 47532), (7, 47541), (8, 47550), (10, 47625), (11, 47640), (12, 47661),

Gene: TrippleS_45 Start: 47639, Stop: 47914, Start Num: 5
Candidate Starts for TrippleS_45:
(Start: 5 @47639 has 19 MA's), (6, 47681), (8, 47699), (10, 47774), (11, 47789), (12, 47810),

Gene: Truong_46 Start: 47957, Stop: 48235, Start Num: 5
Candidate Starts for Truong_46:
(4, 47726), (Start: 5 @47957 has 19 MA's), (6, 47999), (8, 48017), (9, 48038), (12, 48128), (15, 48176), (16, 48188),

Gene: Waterlily_49 Start: 48208, Stop: 48486, Start Num: 5
Candidate Starts for Waterlily_49:
(Start: 5 @48208 has 19 MA's), (6, 48250), (8, 48268), (9, 48289), (12, 48379), (15, 48427), (16, 48439),

Gene: Yafa_47 Start: 47394, Stop: 47669, Start Num: 5
Candidate Starts for Yafa_47:
(4, 47166), (Start: 5 @47394 has 19 MA's), (6, 47436), (7, 47445), (8, 47454), (10, 47529), (11, 47544), (12, 47565),