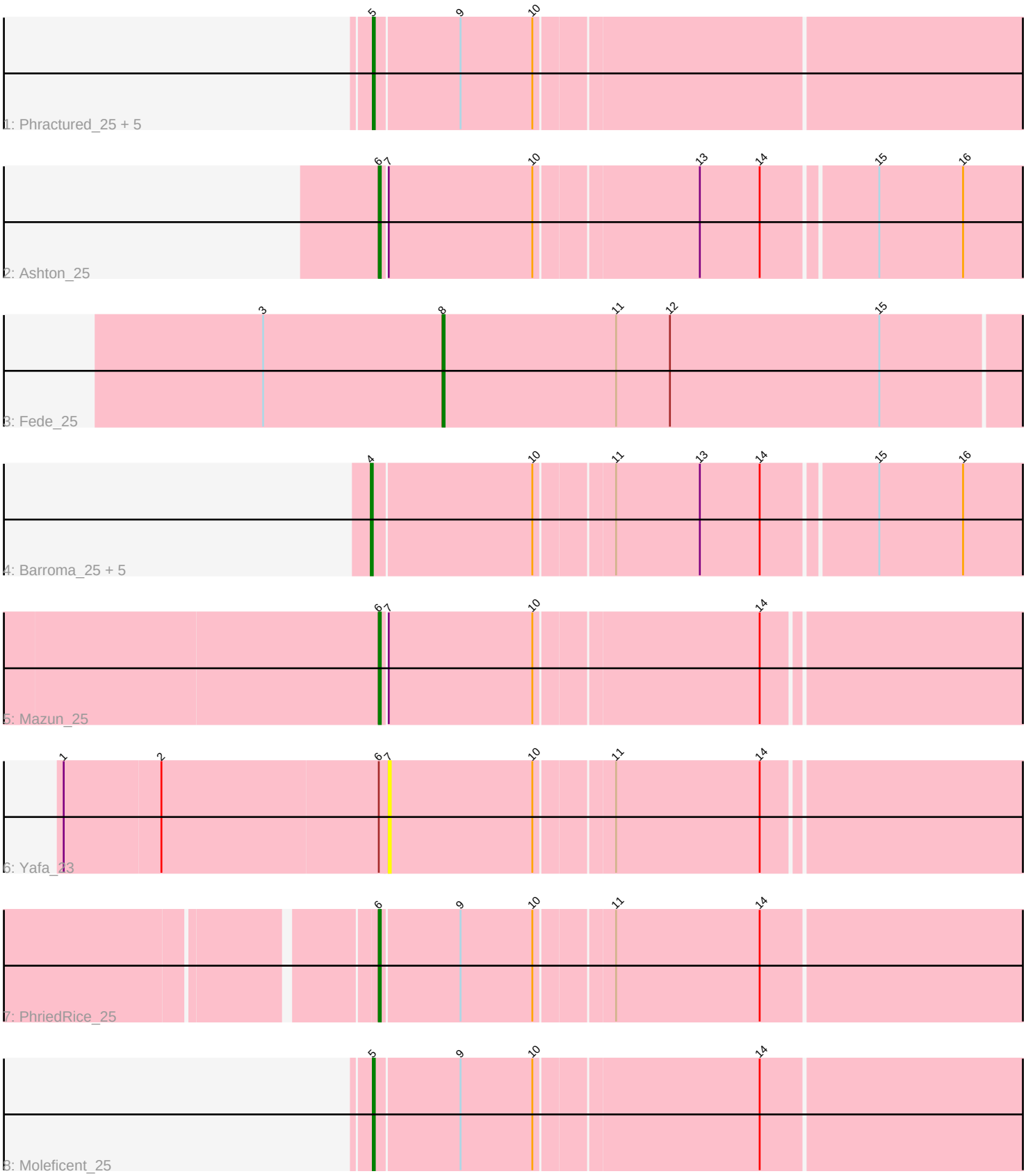
# Pham 4588


5
9
10
1: Phractured_25 + 5
6
7
10
13
14
15
16
2: Ashton_25
3
8
11
12
15
3: Fede_25
4
10
11
13
14
15
16
4: Barroma_25 + 5
6
7
10
14
5: Mazun_25
1
2
6
7
10
11
14
6: Yafa_23
6
9
10
11
14
7: PhriedRice_25
5
9
10
14
8: Moleficent_25

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 4588 Report

This analysis was run 04/05/24 on database version 557.

Pham number 4588 has 18 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Phractured_25, RicoCaldo_25, StagePhright_25, Fullmetal_25, Pharky_25, Phedro_25
• Track 2 : Ashton_25
• Track 3 : Fede_25
• Track 4 : Barroma_25, AloeVera_26, Truong_25, JordanFarm_26, Waterlily_26, Akoni_25
• Track 5 : Mazun_25
• Track 6 : Yafa_23
• Track 7 : PhriedRice_25
• Track 8 : Moleficent_25

***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 6 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Fullmetal_25, Moleficent_25, Pharky_25, Phedro_25, Phractured_25, RicoCaldo_25, StagePhright_25,

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

Genes that do not have the "Most Annotated" start:
• Akoni_25, AloeVera_26, Ashton_25, Barroma_25, Fede_25, JordanFarm_26, Mazun_25, PhriedRice_25, Truong_25, Waterlily_26, Yafa_23,

**Summary by start number:**

Start 4:
• Found in 6 of 18 ( 33.3% ) of genes in pham
• Manual Annotations of this start: 4 of 14
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Akoni_25 (EK2), AloeVera_26 (EK2), Barroma_25 (EK2), JordanFarm_26 (EK2), Truong_25 (EK2), Waterlily_26 (EK2),

Start 5:
• Found in 7 of 18 ( 38.9% ) of genes in pham
• Manual Annotations of this start: 6 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Fullmetal_25 (EK2), Moleficent_25 (EK2), Pharky_25 (EK2), Phedro_25 (EK2), Phractured_25 (EK2), RicoCaldo_25 (EK2), StagePhright_25 (EK2),

Start 6:
• Found in 4 of 18 ( 22.2% ) of genes in pham
• Manual Annotations of this start: 3 of 14
• Called 75.0% of time when present
• Phage (with cluster) where this start called: Ashton_25 (EK2), Mazun_25 (EK2), PhriedRice_25 (EK2),

Start 7:
• Found in 3 of 18 ( 16.7% ) of genes in pham
• No Manual Annotations of this start.
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Yafa_23 (EK2),

Start 8:
• Found in 1 of 18 ( 5.6% ) of genes in pham
• Manual Annotations of this start: 1 of 14
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Fede_25 (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 4 times for cluster EK2.
•Start number 5 was manually annotated 6 times for cluster EK2.
•Start number 6 was manually annotated 3 times for cluster EK2.
•Start number 8 was manually annotated 1 time for cluster EK2.

***Gene Information:***

Gene: Akoni_25 Start: 15174, Stop: 14851, Start Num: 4
Candidate Starts for Akoni_25:
(Start: 4 @15174 has 4 MA's), (10, 15096), (11, 15060), (13, 15018), (14, 14988), (15, 14934), (16, 14892),

Gene: AloeVera_26 Start: 15386, Stop: 15063, Start Num: 4
Candidate Starts for AloeVera_26:
(Start: 4 @15386 has 4 MA's), (10, 15308), (11, 15272), (13, 15230), (14, 15200), (15, 15146), (16, 15104),

Gene: Ashton_25 Start: 15049, Stop: 14729, Start Num: 6
Candidate Starts for Ashton_25:
(Start: 6 @15049 has 3 MA's), (7, 15046), (10, 14974), (13, 14896), (14, 14866), (15, 14812), (16, 14770),

Gene: Barroma_25 Start: 15174, Stop: 14851, Start Num: 4
Candidate Starts for Barroma_25:
(Start: 4 @15174 has 4 MA's), (10, 15096), (11, 15060), (13, 15018), (14, 14988), (15, 14934), (16, 14892),

Gene: Fede_25 Start: 14631, Stop: 14332, Start Num: 8
Candidate Starts for Fede_25:
(3, 14721), (Start: 8 @14631 has 1 MA's), (11, 14544), (12, 14517), (15, 14412),

Gene: Fullmetal_25 Start: 15263, Stop: 14937, Start Num: 5
Candidate Starts for Fullmetal_25:
(Start: 5 @15263 has 6 MA's), (9, 15221), (10, 15185),

Gene: JordanFarm_26 Start: 15386, Stop: 15063, Start Num: 4
Candidate Starts for JordanFarm_26:
(Start: 4 @15386 has 4 MA's), (10, 15308), (11, 15272), (13, 15230), (14, 15200), (15, 15146), (16, 15104),

Gene: Mazun_25 Start: 15158, Stop: 14838, Start Num: 6
Candidate Starts for Mazun_25:
(Start: 6 @15158 has 3 MA's), (7, 15155), (10, 15083), (14, 14975),

Gene: Moleficent_25 Start: 15284, Stop: 14958, Start Num: 5
Candidate Starts for Moleficent_25:
(Start: 5 @15284 has 6 MA's), (9, 15242), (10, 15206), (14, 15098),

Gene: Pharky_25 Start: 15255, Stop: 14929, Start Num: 5
Candidate Starts for Pharky_25:
(Start: 5 @15255 has 6 MA's), (9, 15213), (10, 15177),

Gene: Phedro_25 Start: 15255, Stop: 14929, Start Num: 5
Candidate Starts for Phedro_25:
(Start: 5 @15255 has 6 MA's), (9, 15213), (10, 15177),

Gene: Phractured_25 Start: 15255, Stop: 14929, Start Num: 5
Candidate Starts for Phractured_25:
(Start: 5 @15255 has 6 MA's), (9, 15213), (10, 15177),

Gene: PhriedRice_25 Start: 15231, Stop: 14908, Start Num: 6
Candidate Starts for PhriedRice_25:
(Start: 6 @15231 has 3 MA's), (9, 15192), (10, 15156), (11, 15120), (14, 15048),

Gene: RicoCaldo_25 Start: 15290, Stop: 14964, Start Num: 5
Candidate Starts for RicoCaldo_25:
(Start: 5 @15290 has 6 MA's), (9, 15248), (10, 15212),

Gene: StagePhright_25 Start: 15255, Stop: 14929, Start Num: 5

Candidate Starts for StagePhright_25:
(Start: 5 @15255 has 6 MA's), (9, 15213), (10, 15177),

Gene: Truong_25 Start: 15174, Stop: 14851, Start Num: 4
Candidate Starts for Truong_25:
(Start: 4 @15174 has 4 MA's), (10, 15096), (11, 15060), (13, 15018), (14, 14988), (15, 14934), (16, 14892),

Gene: Waterlily_26 Start: 15428, Stop: 15105, Start Num: 4
Candidate Starts for Waterlily_26:
(Start: 4 @15428 has 4 MA's), (10, 15350), (11, 15314), (13, 15272), (14, 15242), (15, 15188), (16, 15146),

Gene: Yafa_23 Start: 14896, Stop: 14579, Start Num: 7
Candidate Starts for Yafa_23:
(1, 15055), (2, 15007), (Start: 6 @14899 has 3 MA's), (7, 14896), (10, 14824), (11, 14788), (14, 14716),