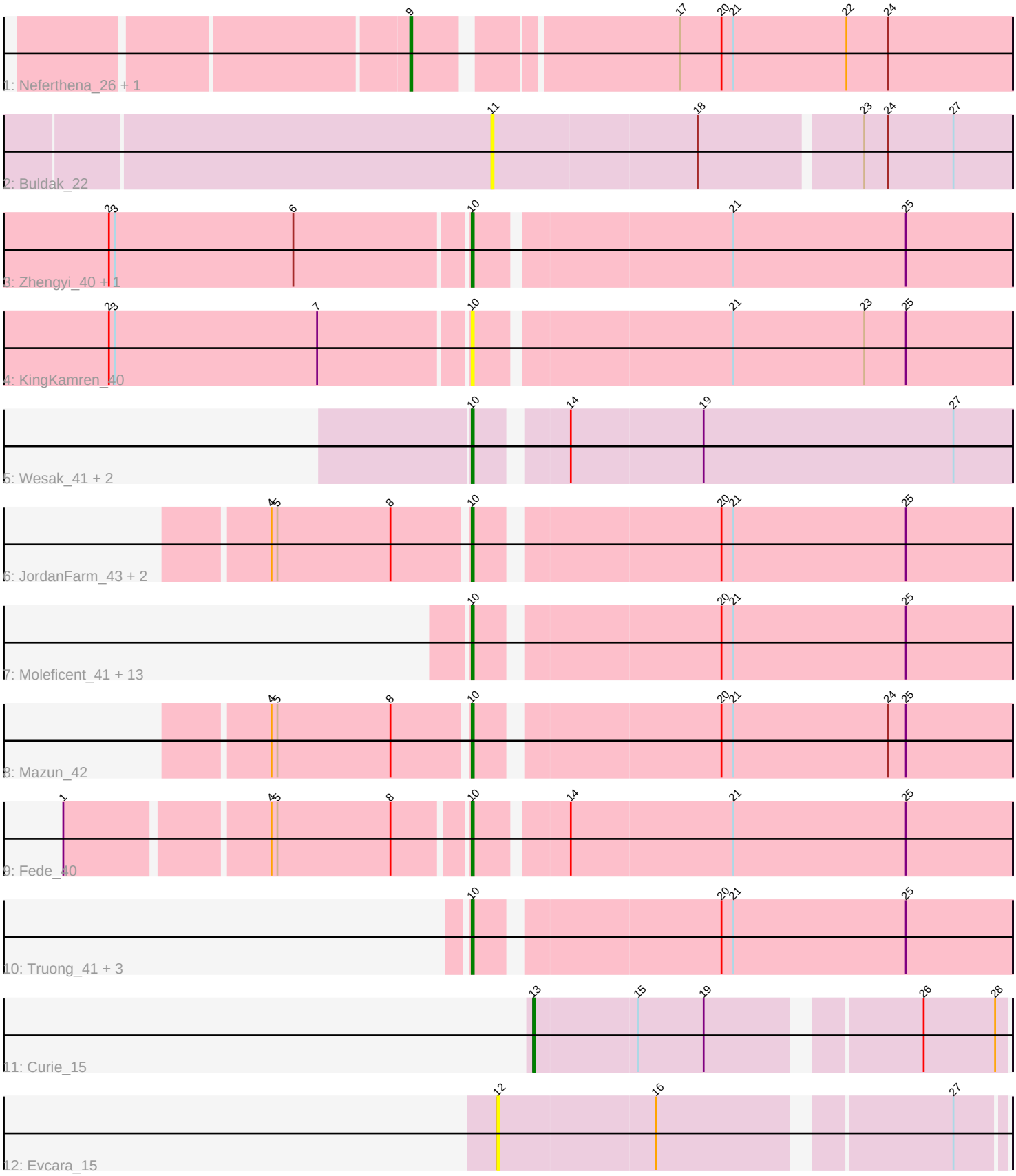
Pham 86337


9 17 20 21 22 24
1: Neferthena_26 + 1
11 18 23 24 27
2: Buldak_22
23 6 10 21 25
3: Zhengyi_40 + 1
23 7 10 21 23 25
4: KingKamren_40
10 14 19 27
5: Wesak_41 + 2
4 5 8 10 20 21 25
6: JordanFarm_43 + 2
10 20 21 25
7: Moleficent_41 + 13
4 5 8 10 20 21 24 25
8: Mazun_42
1 4 5 8 10 14 21 25
9: Fede_40
10 20 21 25
10: Truong_41 + 3
13 15 19 26 28
11: Curie_15
12 16 27
12: Evcara_15

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 86337 Report

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

Pham number 86337 has 34 members, 11 are drafts.

Phages represented in each track:
• Track 1 : Neferthena_26, Clock_26
• Track 2 : Buldak_22
• Track 3 : Zhengyi_40, EugeneKrabs_40
• Track 4 : KingKamren_40
• Track 5 : Wesak_41, YellowPanda_43, TinyTimothy_40
• Track 6 : JordanFarm_43, Ashton_42, AloeVera_42
• Track 7 : Moleficent_41, PhriedRice_42, Astartes_41, Yafa_42, ThirteenKH_41, Phractured_41, Atraxi_39, Morrill_39, Fullmetal_41, Pharky_41, RicoCaldo_41, Phedro_41, StagePhright_41, TrippleS_43
• Track 8 : Mazun_42
• Track 9 : Fede_40
• Track 10 : Truong_41, Waterlily_44, Barroma_43, Akoni_41
• Track 11 : Curie_15
• Track 12 : Evcara_15

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 21 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Akoni_41, AloeVera_42, Ashton_42, Astartes_41, Atraxi_39, Barroma_43, EugeneKrabs_40, Fede_40, Fullmetal_41, JordanFarm_43, KingKamren_40, Mazun_42, Moleficent_41, Morrill_39, Pharky_41, Phedro_41, Phractured_41, PhriedRice_42, RicoCaldo_41, StagePhright_41, ThirteenKH_41, TinyTimothy_40, TrippleS_43, Truong_41, Waterlily_44, Wesak_41, Yafa_42, YellowPanda_43, Zhengyi_40,

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

Genes that do not have the "Most Annotated" start:
• Buldak_22, Clock_26, Curie_15, Evcara_15, Neferthena_26,

Summary by start number:

Start 9:
• Found in 2 of 34 (5.9%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Clock_26 (EA5), Neferthena_26 (EA5),

Start 10:
• Found in 29 of 34 (85.3%) of genes in pham
• Manual Annotations of this start: 21 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Akoni_41 (EK2), AloeVera_42 (EK2), Ashton_42 (EK2), Astartes_41 (EK2), Atraxi_39 (EK2), Barroma_43 (EK2), EugeneKrabs_40 (EK), Fede_40 (EK2), Fullmetal_41 (EK2), JordanFarm_43 (EK2), KingKamren_40 (EK), Mazun_42 (EK2), Moleficent_41 (EK2), Morrill_39 (EK2), Pharky_41 (EK2), Phedro_41 (EK2), Phractured_41 (EK2), PhriedRice_42 (EK2), RicoCaldo_41 (EK2), StagePhright_41 (EK2), ThirteenKH_41 (EK2), TinyTimothy_40 (EK1), TrippleS_43 (EK2), Truong_41 (EK2), Waterlily_44 (EK2), Wesak_41 (EK1), Yafa_42 (EK2), YellowPanda_43 (EK1), Zhengyi_40 (EK),

Start 11:
• Found in 1 of 34 (2.9%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Buldak_22 (EB),

Start 12:
• Found in 1 of 34 (2.9%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Evcara_15 (GI),

Start 13:
• Found in 1 of 34 (2.9%) of genes in pham
• Manual Annotations of this start: 1 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Curie_15 (GI),

Summary by clusters:

There are 6 clusters represented in this pham: EK, EB, GI, EA5, EK2, EK1,

Info for manual annotations of cluster EA5:
•Start number 9 was manually annotated 1 time for cluster EA5.

Info for manual annotations of cluster EK:
•Start number 10 was manually annotated 2 times for cluster EK.

Info for manual annotations of cluster EK1:
•Start number 10 was manually annotated 3 times for cluster EK1.

Info for manual annotations of cluster EK2:
•Start number 10 was manually annotated 16 times for cluster EK2.

Info for manual annotations of cluster GI:
•Start number 13 was manually annotated 1 time for cluster GI.

Gene Information:

Gene: Akoni_41 Start: 41751, Stop: 42011, Start Num: 10
Candidate Starts for Akoni_41:
(Start: 10 @41751 has 21 MA's), (20, 41865), (21, 41871), (25, 41958),

Gene: AloeVera_42 Start: 41964, Stop: 42224, Start Num: 10
Candidate Starts for AloeVera_42:
(4, 41868), (5, 41871), (8, 41928), (Start: 10 @41964 has 21 MA's), (20, 42078), (21, 42084), (25, 42171),

Gene: Ashton_42 Start: 41963, Stop: 42223, Start Num: 10
Candidate Starts for Ashton_42:
(4, 41867), (5, 41870), (8, 41927), (Start: 10 @41963 has 21 MA's), (20, 42077), (21, 42083), (25, 42170),

Gene: Astartes_41 Start: 41494, Stop: 41754, Start Num: 10
Candidate Starts for Astartes_41:
(Start: 10 @41494 has 21 MA's), (20, 41608), (21, 41614), (25, 41701),

Gene: Atraxi_39 Start: 41286, Stop: 41546, Start Num: 10
Candidate Starts for Atraxi_39:
(Start: 10 @41286 has 21 MA's), (20, 41400), (21, 41406), (25, 41493),

Gene: Barroma_43 Start: 41753, Stop: 42013, Start Num: 10
Candidate Starts for Barroma_43:
(Start: 10 @41753 has 21 MA's), (20, 41867), (21, 41873), (25, 41960),

Gene: Buldak_22 Start: 18324, Stop: 18578, Start Num: 11
Candidate Starts for Buldak_22:
(11, 18324), (18, 18426), (23, 18504), (24, 18516), (27, 18549),

Gene: Clock_26 Start: 20513, Stop: 20800, Start Num: 9
Candidate Starts for Clock_26:
(Start: 9 @20513 has 1 MA's), (17, 20633), (20, 20654), (21, 20660), (22, 20717), (24, 20738),

Gene: Curie_15 Start: 14509, Stop: 14730, Start Num: 13
Candidate Starts for Curie_15:
(Start: 13 @14509 has 1 MA's), (15, 14560), (19, 14593), (26, 14689), (28, 14725),

Gene: EugeneKrabs_40 Start: 42897, Stop: 43160, Start Num: 10
Candidate Starts for EugeneKrabs_40:
(2, 42720), (3, 42723), (6, 42813), (Start: 10 @42897 has 21 MA's), (21, 43020), (25, 43107),

Gene: Evcara_15 Start: 14419, Stop: 14655, Start Num: 12

Candidate Starts for Evcara_15:
(12, 14419), (16, 14497), (27, 14632),

Gene: Fede_40 Start: 40496, Stop: 40759, Start Num: 10
Candidate Starts for Fede_40:
(1, 40307), (4, 40403), (5, 40406), (8, 40463), (Start: 10 @40496 has 21 MA's), (14, 40538), (21, 40619), (25, 40706),

Gene: Fullmetal_41 Start: 41868, Stop: 42128, Start Num: 10
Candidate Starts for Fullmetal_41:
(Start: 10 @41868 has 21 MA's), (20, 41982), (21, 41988), (25, 42075),

Gene: JordanFarm_43 Start: 41964, Stop: 42224, Start Num: 10
Candidate Starts for JordanFarm_43:
(4, 41868), (5, 41871), (8, 41928), (Start: 10 @41964 has 21 MA's), (20, 42078), (21, 42084), (25, 42171),

Gene: KingKamren_40 Start: 42851, Stop: 43114, Start Num: 10
Candidate Starts for KingKamren_40:
(2, 42674), (3, 42677), (7, 42779), (Start: 10 @42851 has 21 MA's), (21, 42974), (23, 43040), (25, 43061),

Gene: Mazun_42 Start: 42211, Stop: 42471, Start Num: 10
Candidate Starts for Mazun_42:
(4, 42115), (5, 42118), (8, 42175), (Start: 10 @42211 has 21 MA's), (20, 42325), (21, 42331), (24, 42409), (25, 42418),

Gene: Moleficent_41 Start: 41875, Stop: 42135, Start Num: 10
Candidate Starts for Moleficent_41:
(Start: 10 @41875 has 21 MA's), (20, 41989), (21, 41995), (25, 42082),

Gene: Morrill_39 Start: 41266, Stop: 41526, Start Num: 10
Candidate Starts for Morrill_39:
(Start: 10 @41266 has 21 MA's), (20, 41380), (21, 41386), (25, 41473),

Gene: Neferthena_26 Start: 20545, Stop: 20832, Start Num: 9
Candidate Starts for Neferthena_26:
(Start: 9 @20545 has 1 MA's), (17, 20665), (20, 20686), (21, 20692), (22, 20749), (24, 20770),

Gene: Pharky_41 Start: 41871, Stop: 42131, Start Num: 10
Candidate Starts for Pharky_41:
(Start: 10 @41871 has 21 MA's), (20, 41985), (21, 41991), (25, 42078),

Gene: Phedro_41 Start: 41871, Stop: 42131, Start Num: 10
Candidate Starts for Phedro_41:
(Start: 10 @41871 has 21 MA's), (20, 41985), (21, 41991), (25, 42078),

Gene: Phractured_41 Start: 41871, Stop: 42131, Start Num: 10
Candidate Starts for Phractured_41:
(Start: 10 @41871 has 21 MA's), (20, 41985), (21, 41991), (25, 42078),

Gene: PhriedRice_42 Start: 41975, Stop: 42235, Start Num: 10
Candidate Starts for PhriedRice_42:

(Start: 10 @41975 has 21 MA's), (20, 42089), (21, 42095), (25, 42182),

Gene: RicoCaldo_41 Start: 41953, Stop: 42213, Start Num: 10
Candidate Starts for RicoCaldo_41:
(Start: 10 @41953 has 21 MA's), (20, 42067), (21, 42073), (25, 42160),

Gene: StagePhright_41 Start: 41871, Stop: 42131, Start Num: 10
Candidate Starts for StagePhright_41:
(Start: 10 @41871 has 21 MA's), (20, 41985), (21, 41991), (25, 42078),

Gene: ThirteenKH_41 Start: 41276, Stop: 41536, Start Num: 10
Candidate Starts for ThirteenKH_41:
(Start: 10 @41276 has 21 MA's), (20, 41390), (21, 41396), (25, 41483),

Gene: TinyTimothy_40 Start: 41534, Stop: 41794, Start Num: 10
Candidate Starts for TinyTimothy_40:
(Start: 10 @41534 has 21 MA's), (14, 41573), (19, 41639), (27, 41765),

Gene: TrippleS_43 Start: 41425, Stop: 41685, Start Num: 10
Candidate Starts for TrippleS_43:
(Start: 10 @41425 has 21 MA's), (20, 41539), (21, 41545), (25, 41632),

Gene: Truong_41 Start: 41753, Stop: 42013, Start Num: 10
Candidate Starts for Truong_41:
(Start: 10 @41753 has 21 MA's), (20, 41867), (21, 41873), (25, 41960),

Gene: Waterlily_44 Start: 42007, Stop: 42267, Start Num: 10
Candidate Starts for Waterlily_44:
(Start: 10 @42007 has 21 MA's), (20, 42121), (21, 42127), (25, 42214),

Gene: Wesak_41 Start: 41376, Stop: 41636, Start Num: 10
Candidate Starts for Wesak_41:
(Start: 10 @41376 has 21 MA's), (14, 41415), (19, 41481), (27, 41607),

Gene: Yafa_42 Start: 41180, Stop: 41440, Start Num: 10
Candidate Starts for Yafa_42:
(Start: 10 @41180 has 21 MA's), (20, 41294), (21, 41300), (25, 41387),

Gene: YellowPanda_43 Start: 41257, Stop: 41517, Start Num: 10
Candidate Starts for YellowPanda_43:
(Start: 10 @41257 has 21 MA's), (14, 41296), (19, 41362), (27, 41488),

Gene: Zhengyi_40 Start: 42946, Stop: 43209, Start Num: 10
Candidate Starts for Zhengyi_40:
(2, 42769), (3, 42772), (6, 42862), (Start: 10 @42946 has 21 MA's), (21, 43069), (25, 43156),