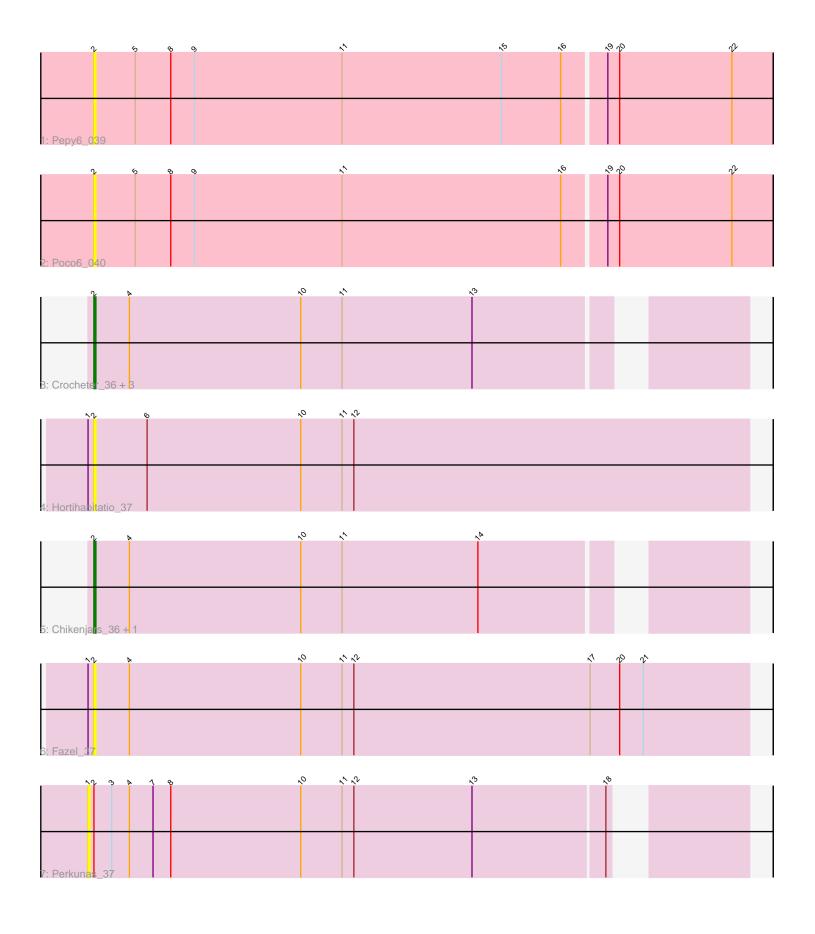# Pham 87803

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 87803 Report

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

Pham number 87803 has 11 members, 6 are drafts.

Phages represented in each track:
• Track 1 : Pepy6_039
• Track 2 : Poco6_040
• Track 3 : Crocheter_36, Untouchable_36, Nithya_36, Hydrus_37
• Track 4 : Hortihabitatio_37
• Track 5 : Chikenjars_36, TenaciousP_40
• Track 6 : Fazel_37
• Track 7 : Perkunas_37

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

The start number called the most often in the published annotations is 2, it was called in 5 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Chikenjars_36, Crocheter_36, Fazel_37, Hortihabitatio_37, Hydrus_37, Nithya_36, Pepy6_039, Poco6_040, TenaciousP_40, Untouchable_36,

Genes that have the "Most Annotated" start but do not call it:
• Perkunas_37,

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

Summary by start number:

Start 1:
• Found in 3 of 11 (27.3%) of genes in pham
• No Manual Annotations of this start.
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Perkunas_37 (DJ),

Start 2:
• Found in 11 of 11 (100.0%) of genes in pham
• Manual Annotations of this start: 5 of 5

• Called 90.9% of time when present
• Phage (with cluster) where this start called: Chikenjars_36 (DJ), Crocheter_36 (DJ), Fazel_37 (DJ), Hortihabitatio_37 (DJ), Hydrus_37 (DJ), Nithya_36 (DJ), Pepy6_039 (CC), Poco6_040 (CC), TenaciousP_40 (DJ), Untouchable_36 (DJ),

Summary by clusters:

There are 2 clusters represented in this pham: CC, DJ,

Info for manual annotations of cluster DJ:
• Start number 2 was manually annotated 5 times for cluster DJ.

Gene Information:

Gene: Chikenjars_36 Start: 31344, Stop: 31655, Start Num: 2
Candidate Starts for Chikenjars_36:
(Start: 2 @31344 has 5 MA's), (4, 31362), (10, 31449), (11, 31470), (14, 31539),

Gene: Crocheter_36 Start: 31482, Stop: 31793, Start Num: 2
Candidate Starts for Crocheter_36:
(Start: 2 @31482 has 5 MA's), (4, 31500), (10, 31587), (11, 31608), (13, 31674),

Gene: Fazel_37 Start: 30377, Stop: 30709, Start Num: 2
Candidate Starts for Fazel_37:
(1, 30374), (Start: 2 @30377 has 5 MA's), (4, 30395), (10, 30482), (11, 30503), (12, 30509), (17, 30629), (20, 30644), (21, 30656),

Gene: Hortihabitatio_37 Start: 30770, Stop: 31102, Start Num: 2
Candidate Starts for Hortihabitatio_37:
(1, 30767), (Start: 2 @30770 has 5 MA's), (6, 30797), (10, 30875), (11, 30896), (12, 30902),

Gene: Hydrus_37 Start: 31857, Stop: 32168, Start Num: 2
Candidate Starts for Hydrus_37:
(Start: 2 @31857 has 5 MA's), (4, 31875), (10, 31962), (11, 31983), (13, 32049),

Gene: Nithya_36 Start: 31338, Stop: 31646, Start Num: 2
Candidate Starts for Nithya_36:
(Start: 2 @31338 has 5 MA's), (4, 31356), (10, 31443), (11, 31464), (13, 31530),

Gene: Pepy6_039 Start: 38550, Stop: 38891, Start Num: 2
Candidate Starts for Pepy6_039:
(Start: 2 @38550 has 5 MA's), (5, 38571), (8, 38589), (9, 38601), (11, 38676), (15, 38757), (16, 38787), (19, 38808), (20, 38814), (22, 38871),

Gene: Perkunas_37 Start: 28857, Stop: 29171, Start Num: 1
Candidate Starts for Perkunas_37:
(1, 28857), (Start: 2 @28860 has 5 MA's), (3, 28869), (4, 28878), (7, 28890), (8, 28899), (10, 28965), (11, 28986), (12, 28992), (13, 29052), (18, 29118),

Gene: Poco6_040 Start: 40572, Stop: 40913, Start Num: 2

Candidate Starts for Poco6_040:
(Start: 2 @40572 has 5 MA's), (5, 40593), (8, 40611), (9, 40623), (11, 40698), (16, 40809), (19, 40830), (20, 40836), (22, 40893),

Gene: TenaciousP_40 Start: 32781, Stop: 33092, Start Num: 2
Candidate Starts for TenaciousP_40:
(Start: 2 @32781 has 5 MA's), (4, 32799), (10, 32886), (11, 32907), (14, 32976),

Gene: Untouchable_36 Start: 31481, Stop: 31792, Start Num: 2
Candidate Starts for Untouchable_36:
(Start: 2 @31481 has 5 MA's), (4, 31499), (10, 31586), (11, 31607), (13, 31673),