Pham 162201

1: Benczkowski14_39 + 8

2: Niagara_39

3: GordTnk2_48

4: Gmala1_46 + 1

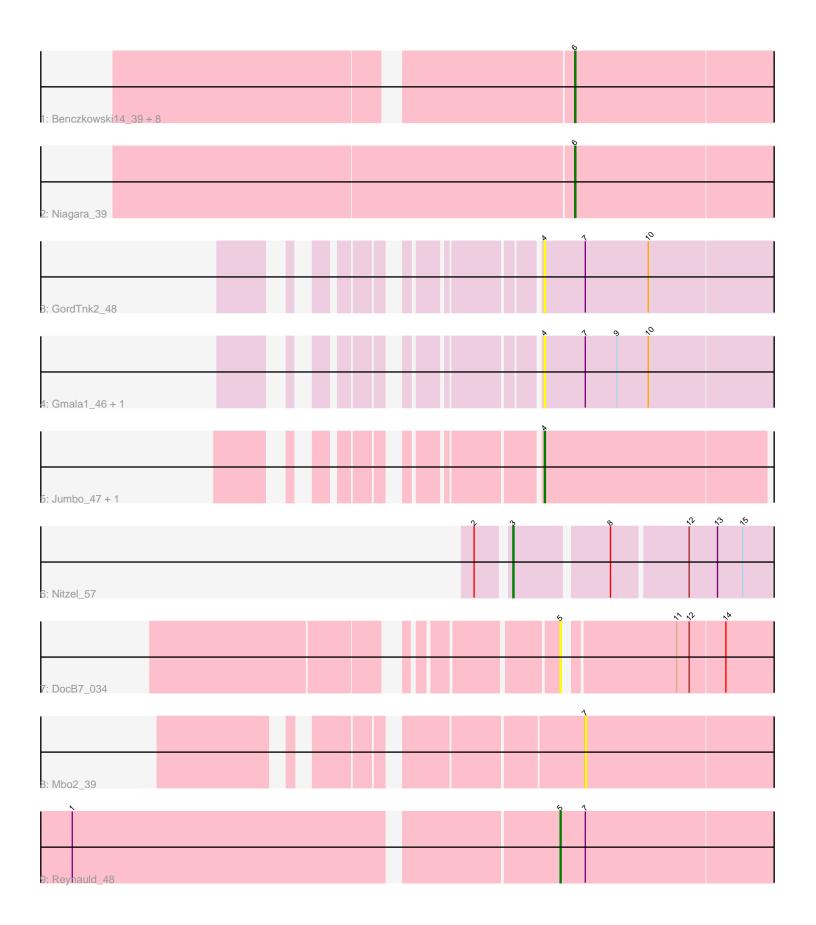5: Jumbo_47 + 1

6: Nitzel_57

7: DocB7_034

8: Mbo2_39

9: Reynauld_48

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 162201 Report

This analysis was run 05/04/24 on database version 560.

Pham number 162201 has 19 members, 7 are drafts.

Phages represented in each track:
• Track 1 : Benczkowski14_39, Tredge_40, Demosthenes_39, Teatealatte_40, Katyusha_39, ASerpRocky_40, Teech_40, Kvothe_39, Hollow_40
• Track 2 : Niagara_39
• Track 3 : GordTnk2_48
• Track 4 : Gmala1_46, GordDuk1_47
• Track 5 : Jumbo_47, GMA3_48
• Track 6 : Nitzel_57
• Track 7 : DocB7_034
• Track 8 : Mbo2_39
• Track 9 : Reynauld_48

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

The start number called the most often in the published annotations is 6, it was called in 9 of the 12 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ASerpRocky_40, Benczkowski14_39, Demosthenes_39, Hollow_40, Katyusha_39, Kvothe_39, Niagara_39, Teatealatte_40, Teech_40, Tredge_40,

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

Genes that do not have the "Most Annotated" start:
• DocB7_034, GMA3_48, Gmala1_46, GordDuk1_47, GordTnk2_48, Jumbo_47, Mbo2_39, Nitzel_57, Reynauld_48,

Summary by start number:

Start 3:
• Found in 1 of 19 (5.3%) of genes in pham
• Manual Annotations of this start: 1 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Nitzel_57 (F1),

Start 4:
• Found in 5 of 19 (26.3%) of genes in pham
• Manual Annotations of this start: 1 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: GMA3_48 (DF2), Gmala1_46 (DF1), GordDuk1_47 (DF1), GordTnk2_48 (DF1), Jumbo_47 (DF3),

Start 5:
• Found in 2 of 19 (10.5%) of genes in pham
• Manual Annotations of this start: 1 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: DocB7_034 (singleton), Reynauld_48 (singleton),

Start 6:
• Found in 10 of 19 (52.6%) of genes in pham
• Manual Annotations of this start: 9 of 12
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ASerpRocky_40 (CS4), Benczkowski14_39 (CS4), Demosthenes_39 (CS4), Hollow_40 (CS4), Katyusha_39 (CS4), Kvothe_39 (CS4), Niagara_39 (CS4), Teatealatte_40 (CS4), Teech_40 (CS4), Tredge_40 (CS4),

Start 7:
• Found in 5 of 19 (26.3%) of genes in pham
• No Manual Annotations of this start.
• Called 20.0% of time when present
• Phage (with cluster) where this start called: Mbo2_39 (singleton),

Summary by clusters:

There are 6 clusters represented in this pham: F1, singleton, DF1, DF3, DF2, CS4,

Info for manual annotations of cluster CS4:
•Start number 6 was manually annotated 9 times for cluster CS4.

Info for manual annotations of cluster DF3:
•Start number 4 was manually annotated 1 time for cluster DF3.

Info for manual annotations of cluster F1:
•Start number 3 was manually annotated 1 time for cluster F1.

Gene Information:
Gene: ASerpRocky_40 Start: 44241, Stop: 44041, Start Num: 6
Candidate Starts for ASerpRocky_40:
(Start: 6 @44241 has 9 MA's),

Gene: Benczkowski14_39 Start: 44274, Stop: 44074, Start Num: 6
Candidate Starts for Benczkowski14_39:
(Start: 6 @44274 has 9 MA's),

Gene: Demosthenes_39 Start: 44214, Stop: 44014, Start Num: 6
Candidate Starts for Demosthenes_39:
(Start: 6 @44214 has 9 MA's),

Gene: DocB7_034 Start: 36428, Stop: 36228, Start Num: 5
Candidate Starts for DocB7_034:
(Start: 5 @36428 has 1 MA's), (11, 36332), (12, 36320), (14, 36287),

Gene: GMA3_48 Start: 45185, Stop: 44973, Start Num: 4
Candidate Starts for GMA3_48:
(Start: 4 @45185 has 1 MA's),

Gene: Gmala1_46 Start: 43387, Stop: 43169, Start Num: 4
Candidate Starts for Gmala1_46:
(Start: 4 @43387 has 1 MA's), (7, 43348), (9, 43318), (10, 43288),

Gene: GordDuk1_47 Start: 43538, Stop: 43320, Start Num: 4
Candidate Starts for GordDuk1_47:
(Start: 4 @43538 has 1 MA's), (7, 43499), (9, 43469), (10, 43439),

Gene: GordTnk2_48 Start: 43692, Stop: 43468, Start Num: 4
Candidate Starts for GordTnk2_48:
(Start: 4 @43692 has 1 MA's), (7, 43653), (10, 43593),

Gene: Hollow_40 Start: 44620, Stop: 44420, Start Num: 6
Candidate Starts for Hollow_40:
(Start: 6 @44620 has 9 MA's),

Gene: Jumbo_47 Start: 48027, Stop: 47818, Start Num: 4
Candidate Starts for Jumbo_47:
(Start: 4 @48027 has 1 MA's),

Gene: Katyusha_39 Start: 44274, Stop: 44074, Start Num: 6
Candidate Starts for Katyusha_39:
(Start: 6 @44274 has 9 MA's),

Gene: Kvothe_39 Start: 44173, Stop: 43973, Start Num: 6
Candidate Starts for Kvothe_39:
(Start: 6 @44173 has 9 MA's),

Gene: Mbo2_39 Start: 36317, Stop: 36114, Start Num: 7
Candidate Starts for Mbo2_39:
(7, 36317),

Gene: Niagara_39 Start: 44231, Stop: 44031, Start Num: 6
Candidate Starts for Niagara_39:
(Start: 6 @44231 has 9 MA's),

Gene: Nitzel_57 Start: 39291, Stop: 39521, Start Num: 3

Candidate Starts for Nitzel_57:
(2, 39264), (Start: 3 @39291 has 1 MA's), (8, 39375), (12, 39444), (13, 39471), (15, 39495),

Gene: Reynauld_48 Start: 45364, Stop: 45140, Start Num: 5
Candidate Starts for Reynauld_48:
(1, 45808), (Start: 5 @45364 has 1 MA's), (7, 45340),

Gene: Teatealatte_40 Start: 44176, Stop: 43976, Start Num: 6
Candidate Starts for Teatealatte_40:
(Start: 6 @44176 has 9 MA's),

Gene: Teech_40 Start: 43977, Stop: 43777, Start Num: 6
Candidate Starts for Teech_40:
(Start: 6 @43977 has 9 MA's),

Gene: Tredge_40 Start: 44176, Stop: 43976, Start Num: 6
Candidate Starts for Tredge_40:
(Start: 6 @44176 has 9 MA's),