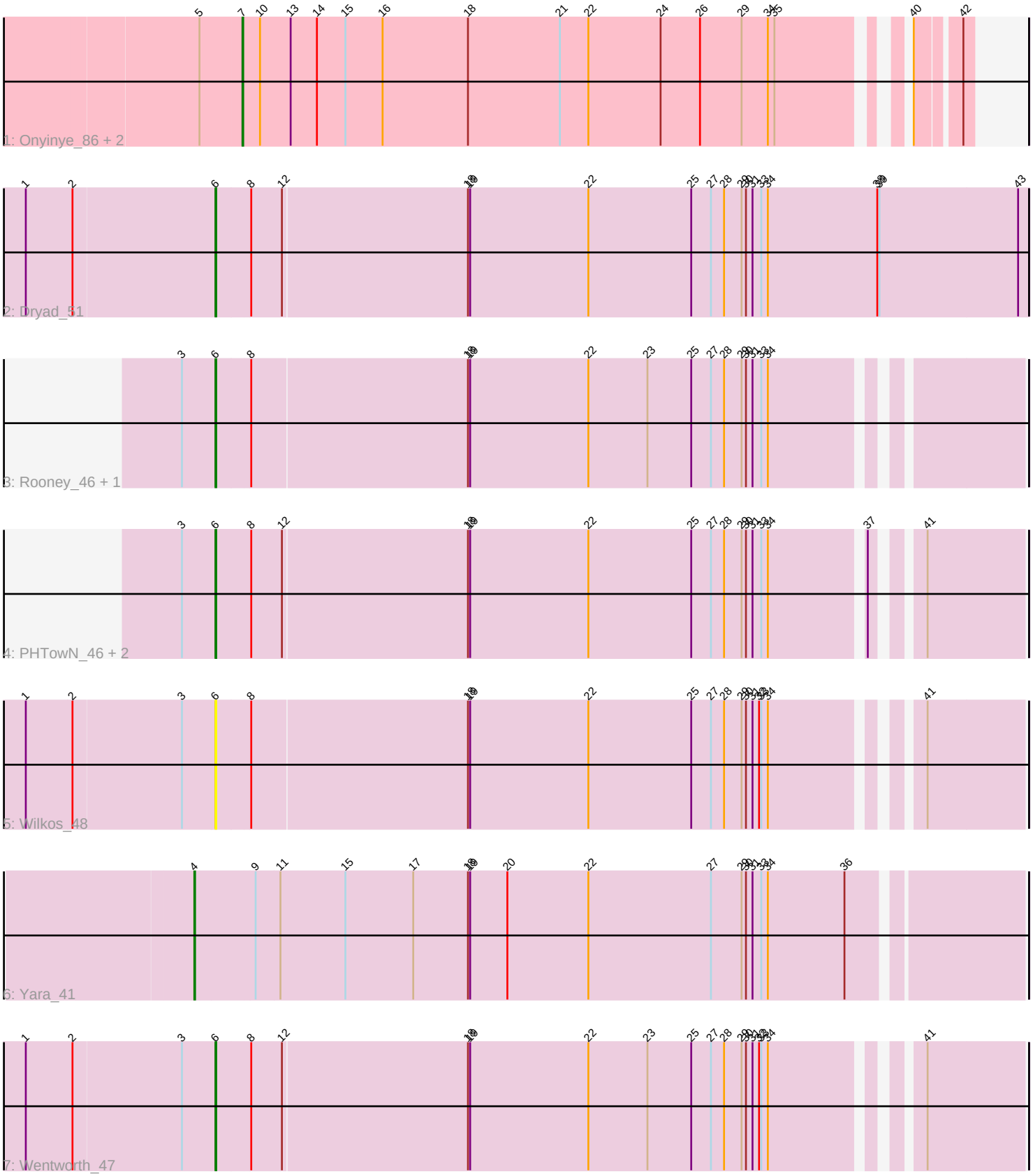
Pham 5746


1: Onyinye_86 + 2
2: Dryad_31
3: Rooney_46 + 1
4: PHTowN_46 + 2
5: Wilkos_48
6: Yara_41
7: Wentworth_47

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 5746 Report

This analysis was run 04/22/24 on database version 561.

Pham number 5746 has 12 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Onyinye_86, Aikoy_87, Leopard_86
• Track 2 : Dryad_51
• Track 3 : Rooney_46, Gibson_46
• Track 4 : PHTowN_46, ShakeNBake_46, Lizz_46
• Track 5 : Wilkos_48
• Track 6 : Yara_41
• Track 7 : Wentworth_47

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 7 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Dryad_51, Gibson_46, Lizz_46, PHTowN_46, Rooney_46, ShakeNBake_46, Wentworth_47, Wilkos_48,

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

Genes that do not have the "Most Annotated" start:
• Aikoy_87, Leopard_86, Onyinye_86, Yara_41,

Summary by start number:

Start 4:
• Found in 1 of 12 (8.3%) of genes in pham
• Manual Annotations of this start: 1 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Yara_41 (BN),

Start 6:
• Found in 8 of 12 (66.7%) of genes in pham
• Manual Annotations of this start: 7 of 11

• Called 100.0% of time when present
• Phage (with cluster) where this start called: Dryad_51 (BN), Gibson_46 (BN), Lizz_46 (BN), PHTowN_46 (BN), Rooney_46 (BN), ShakeNBake_46 (BN), Wentworth_47 (BN), Wilkos_48 (BN),

Start 7:
• Found in 3 of 12 (25.0%) of genes in pham
• Manual Annotations of this start: 3 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Aikoy_87 (AE), Leopard_86 (AE), Onyinye_86 (AE),

Summary by clusters:

There are 2 clusters represented in this pham: BN, AE,

Info for manual annotations of cluster AE:
•Start number 7 was manually annotated 3 times for cluster AE.

Info for manual annotations of cluster BN:
•Start number 4 was manually annotated 1 time for cluster BN.
•Start number 6 was manually annotated 7 times for cluster BN.

Gene Information:

Gene: Aikoy_87 Start: 60443, Stop: 61375, Start Num: 7
Candidate Starts for Aikoy_87:
(5, 60386), (Start: 7 @60443 has 3 MA's), (10, 60467), (13, 60509), (14, 60545), (15, 60584), (16, 60635), (18, 60752), (21, 60878), (22, 60917), (24, 61016), (26, 61070), (29, 61127), (34, 61163), (35, 61172), (40, 61307), (42, 61361),

Gene: Dryad_51 Start: 35382, Stop: 34279, Start Num: 6
Candidate Starts for Dryad_51:
(1, 35637), (2, 35574), (Start: 6 @35382 has 7 MA's), (8, 35337), (12, 35295), (18, 35046), (19, 35043), (22, 34881), (25, 34740), (27, 34713), (28, 34695), (29, 34671), (30, 34665), (31, 34656), (33, 34644), (34, 34635), (38, 34485), (39, 34482), (43, 34293),

Gene: Gibson_46 Start: 34384, Stop: 33338, Start Num: 6
Candidate Starts for Gibson_46:
(3, 34429), (Start: 6 @34384 has 7 MA's), (8, 34339), (18, 34048), (19, 34045), (22, 33883), (23, 33802), (25, 33742), (27, 33715), (28, 33697), (29, 33673), (30, 33667), (31, 33658), (33, 33646), (34, 33637),

Gene: Leopard_86 Start: 60741, Stop: 61673, Start Num: 7
Candidate Starts for Leopard_86:
(5, 60684), (Start: 7 @60741 has 3 MA's), (10, 60765), (13, 60807), (14, 60843), (15, 60882), (16, 60933), (18, 61050), (21, 61176), (22, 61215), (24, 61314), (26, 61368), (29, 61425), (34, 61461), (35, 61470), (40, 61605), (42, 61659),

Gene: Lizz_46 Start: 34198, Stop: 33152, Start Num: 6
Candidate Starts for Lizz_46:

(3, 34243), (Start: 6 @34198 has 7 MA's), (8, 34153), (12, 34111), (18, 33862), (19, 33859), (22, 33697), (25, 33556), (27, 33529), (28, 33511), (29, 33487), (30, 33481), (31, 33472), (33, 33460), (34, 33451), (37, 33331), (41, 33283),

Gene: Onyinye_86 Start: 60236, Stop: 61168, Start Num: 7
Candidate Starts for Onyinye_86:
(5, 60179), (Start: 7 @60236 has 3 MA's), (10, 60260), (13, 60302), (14, 60338), (15, 60377), (16, 60428), (18, 60545), (21, 60671), (22, 60710), (24, 60809), (26, 60863), (29, 60920), (34, 60956), (35, 60965), (40, 61100), (42, 61154),

Gene: PHTowN_46 Start: 34196, Stop: 33150, Start Num: 6
Candidate Starts for PHTowN_46:
(3, 34241), (Start: 6 @34196 has 7 MA's), (8, 34151), (12, 34109), (18, 33860), (19, 33857), (22, 33695), (25, 33554), (27, 33527), (28, 33509), (29, 33485), (30, 33479), (31, 33470), (33, 33458), (34, 33449), (37, 33329), (41, 33281),

Gene: Rooney_46 Start: 34381, Stop: 33335, Start Num: 6
Candidate Starts for Rooney_46:
(3, 34426), (Start: 6 @34381 has 7 MA's), (8, 34336), (18, 34045), (19, 34042), (22, 33880), (23, 33799), (25, 33739), (27, 33712), (28, 33694), (29, 33670), (30, 33664), (31, 33655), (33, 33643), (34, 33634),

Gene: ShakeNBake_46 Start: 34214, Stop: 33168, Start Num: 6
Candidate Starts for ShakeNBake_46:
(3, 34259), (Start: 6 @34214 has 7 MA's), (8, 34169), (12, 34127), (18, 33878), (19, 33875), (22, 33713), (25, 33572), (27, 33545), (28, 33527), (29, 33503), (30, 33497), (31, 33488), (33, 33476), (34, 33467), (37, 33347), (41, 33299),

Gene: Wentworth_47 Start: 34666, Stop: 33620, Start Num: 6
Candidate Starts for Wentworth_47:
(1, 34921), (2, 34858), (3, 34711), (Start: 6 @34666 has 7 MA's), (8, 34621), (12, 34579), (18, 34330), (19, 34327), (22, 34165), (23, 34084), (25, 34024), (27, 33997), (28, 33979), (29, 33955), (30, 33949), (31, 33940), (32, 33931), (33, 33928), (34, 33919), (41, 33751),

Gene: Wilkos_48 Start: 34487, Stop: 33441, Start Num: 6
Candidate Starts for Wilkos_48:
(1, 34742), (2, 34679), (3, 34532), (Start: 6 @34487 has 7 MA's), (8, 34442), (18, 34151), (19, 34148), (22, 33986), (25, 33845), (27, 33818), (28, 33800), (29, 33776), (30, 33770), (31, 33761), (32, 33752), (33, 33749), (34, 33740), (41, 33572),

Gene: Yara_41 Start: 32877, Stop: 31777, Start Num: 4
Candidate Starts for Yara_41:
(Start: 4 @32877 has 1 MA's), (9, 32799), (11, 32766), (15, 32679), (17, 32586), (18, 32511), (19, 32508), (20, 32457), (22, 32346), (27, 32178), (29, 32136), (30, 32130), (31, 32121), (33, 32109), (34, 32100), (36, 31995),