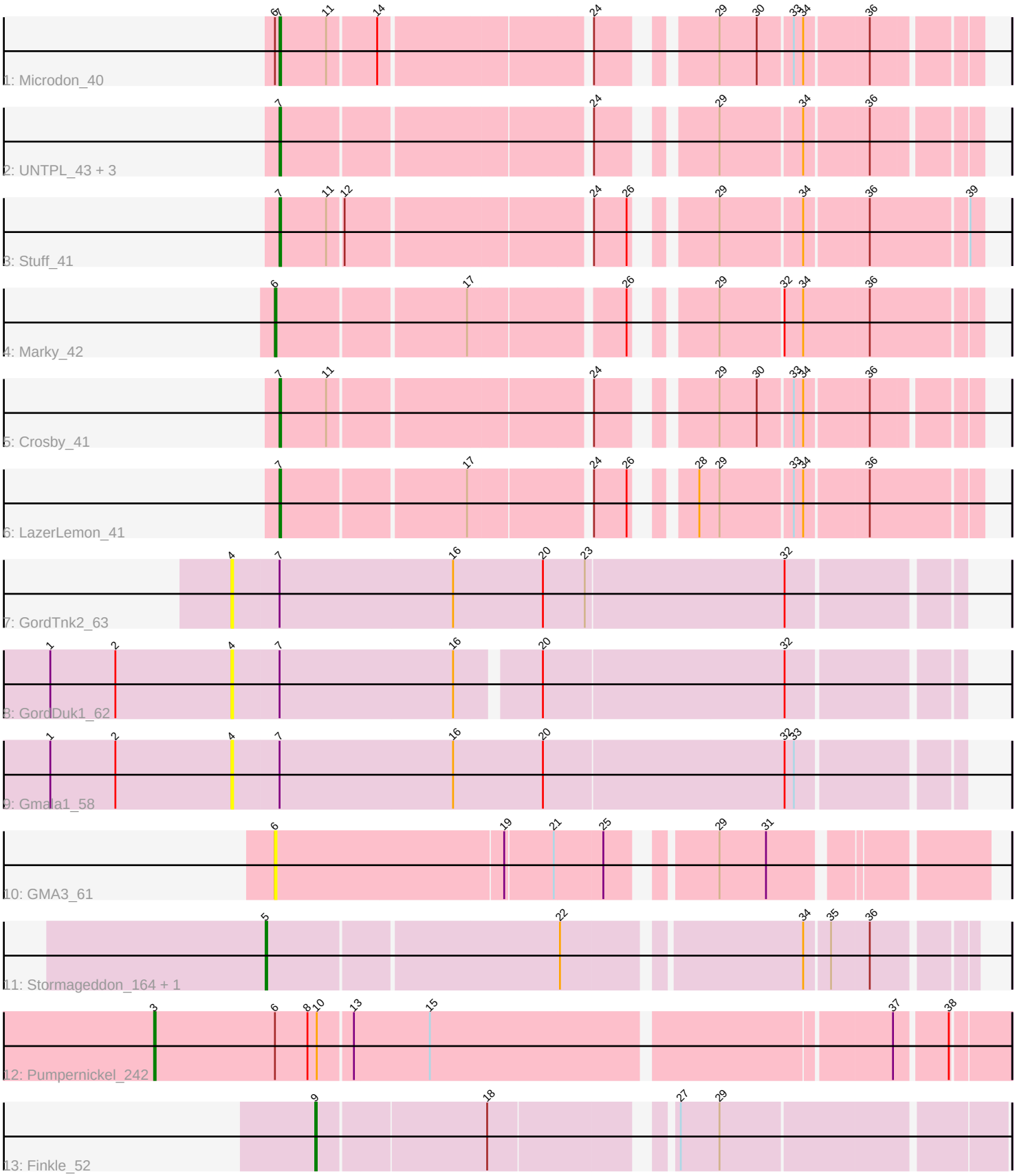
Pham 331330


1: Microdon_40
2: UNTPL_43 + 3
3: Stuff_41
4: Marky_42
5: Crosby_41
6: LazerLemon_41
7: GordTnk2_63
8: GordDuk1_62
9: Gmala1_58
10: GMA3_61
11: Stormageddon_164 + 1
12: Pumpernickel_242
13: Finkle_52

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 331330 Report

This analysis was run 09/05/26 on database version 662.

Pham number 331330 has 17 members, 4 are drafts.

Phages represented in each track:
• Track 1 : Microdon_40
• Track 2 : UNTPL_43, Intolerant_40, Shynx_41, Bogota_42
• Track 3 : Stuff_41
• Track 4 : Marky_42
• Track 5 : Crosby_41
• Track 6 : LazerLemon_41
• Track 7 : GordTnk2_63
• Track 8 : GordDuk1_62
• Track 9 : Gmala1_58
• Track 10 : GMA3_61
• Track 11 : Stormageddon_164, RedWattleHog_163
• Track 12 : Pumpernickel_242
• Track 13 : Finkle_52

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

The start number called the most often in the published annotations is 7, it was called in 8 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Bogota_42, Crosby_41, Intolerant_40, LazerLemon_41, Microdon_40, Shynx_41, Stuff_41, UNTPL_43,

Genes that have the "Most Annotated" start but do not call it:
• Gmala1_58, GordDuk1_62, GordTnk2_63,

Genes that do not have the "Most Annotated" start:
• Finkle_52, GMA3_61, Marky_42, Pumpernickel_242, RedWattleHog_163, Stormageddon_164,

Summary by start number:

Start 3:
• Found in 1 of 17 (5.9%) of genes in pham

• Manual Annotations of this start: 1 of 13
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Pumpernickel_242 (GD4),

Start 4:
• Found in 3 of 17 (17.6%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Gmala1_58 (DF1), GordDuk1_62 (DF1), GordTnk2_63 (DF1),

Start 5:
• Found in 2 of 17 (11.8%) of genes in pham
• Manual Annotations of this start: 2 of 13
• Called 100.0% of time when present
• Phage (with cluster) where this start called: RedWattleHog_163 (DX), Stormageddon_164 (DX),

Start 6:
• Found in 4 of 17 (23.5%) of genes in pham
• Manual Annotations of this start: 1 of 13
• Called 50.0% of time when present
• Phage (with cluster) where this start called: GMA3_61 (DF2), Marky_42 (BH),

Start 7:
• Found in 11 of 17 (64.7%) of genes in pham
• Manual Annotations of this start: 8 of 13
• Called 72.7% of time when present
• Phage (with cluster) where this start called: Bogota_42 (BH), Crosby_41 (BH), Intolerant_40 (BH), LazerLemon_41 (BH), Microdon_40 (BH), Shynx_41 (BH), Stuff_41 (BH), UNTPL_43 (BH),

Start 9:
• Found in 1 of 17 (5.9%) of genes in pham
• Manual Annotations of this start: 1 of 13
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Finkle_52 (singleton),

Summary by clusters:

There are 6 clusters represented in this pham: singleton, GD4, DF1, BH, DF2, DX,

Info for manual annotations of cluster BH:
•Start number 6 was manually annotated 1 time for cluster BH.
•Start number 7 was manually annotated 8 times for cluster BH.

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

Info for manual annotations of cluster GD4:
•Start number 3 was manually annotated 1 time for cluster GD4.

Gene Information:

Gene: Bogota_42 Start: 30898, Stop: 31290, Start Num: 7
Candidate Starts for Bogota_42:
(Start: 7 @30898 has 8 MA's), (24, 31081), (29, 31138), (34, 31189), (36, 31228),

Gene: Crosby_41 Start: 30643, Stop: 31035, Start Num: 7
Candidate Starts for Crosby_41:
(Start: 7 @30643 has 8 MA's), (11, 30673), (24, 30826), (29, 30883), (30, 30907), (33, 30928), (34, 30934), (36, 30973),

Gene: Finkle_52 Start: 35374, Stop: 35778, Start Num: 9
Candidate Starts for Finkle_52:
(Start: 9 @35374 has 1 MA's), (18, 35479), (27, 35581), (29, 35605),

Gene: GMA3_61 Start: 51882, Stop: 51469, Start Num: 6
Candidate Starts for GMA3_61:
(Start: 6 @51882 has 1 MA's), (19, 51738), (21, 51708), (25, 51678), (29, 51624), (31, 51594),

Gene: Gmala1_58 Start: 49679, Stop: 49224, Start Num: 4
Candidate Starts for Gmala1_58:
(1, 49796), (2, 49754), (4, 49679), (Start: 7 @49649 has 8 MA's), (16, 49538), (20, 49481), (32, 49328), (33, 49322),

Gene: GordDuk1_62 Start: 50228, Stop: 49782, Start Num: 4
Candidate Starts for GordDuk1_62:
(1, 50345), (2, 50303), (4, 50228), (Start: 7 @50198 has 8 MA's), (16, 50087), (20, 50039), (32, 49886),

Gene: GordTnk2_63 Start: 50397, Stop: 49942, Start Num: 4
Candidate Starts for GordTnk2_63:
(4, 50397), (Start: 7 @50367 has 8 MA's), (16, 50256), (20, 50199), (23, 50172), (32, 50046),

Gene: Intolerant_40 Start: 30536, Stop: 30928, Start Num: 7
Candidate Starts for Intolerant_40:
(Start: 7 @30536 has 8 MA's), (24, 30719), (29, 30776), (34, 30827), (36, 30866),

Gene: LazerLemon_41 Start: 31019, Stop: 31417, Start Num: 7
Candidate Starts for LazerLemon_41:
(Start: 7 @31019 has 8 MA's), (17, 31133), (24, 31202), (26, 31223), (28, 31247), (29, 31259), (33, 31304), (34, 31310), (36, 31349),

Gene: Marky_42 Start: 30657, Stop: 31061, Start Num: 6
Candidate Starts for Marky_42:
(Start: 6 @30657 has 1 MA's), (17, 30774), (26, 30864), (29, 30900), (32, 30939), (34, 30951), (36, 30993),

Gene: Microdon_40 Start: 30342, Stop: 30734, Start Num: 7
Candidate Starts for Microdon_40:
(Start: 6 @30339 has 1 MA's), (Start: 7 @30342 has 8 MA's), (11, 30372), (14, 30402), (24, 30525), (29, 30582), (30, 30606), (33, 30627), (34, 30633), (36, 30672),

Gene: Pumpernickel_242 Start: 141574, Stop: 142095, Start Num: 3
Candidate Starts for Pumpernickel_242:
(Start: 3 @141574 has 1 MA's), (Start: 6 @141652 has 1 MA's), (8, 141673), (10, 141679), (13, 141700), (15, 141748), (37, 142030), (38, 142060),

Gene: RedWattleHog_163 Start: 108315, Stop: 108734, Start Num: 5
Candidate Starts for RedWattleHog_163:
(Start: 5 @108315 has 2 MA's), (22, 108495), (34, 108636), (35, 108651), (36, 108675),

Gene: Shynx_41 Start: 30826, Stop: 31218, Start Num: 7
Candidate Starts for Shynx_41:
(Start: 7 @30826 has 8 MA's), (24, 31009), (29, 31066), (34, 31117), (36, 31156),

Gene: Stormageddon_164 Start: 109280, Stop: 109699, Start Num: 5
Candidate Starts for Stormageddon_164:
(Start: 5 @109280 has 2 MA's), (22, 109460), (34, 109601), (35, 109616), (36, 109640),

Gene: Stuff_41 Start: 30816, Stop: 31214, Start Num: 7
Candidate Starts for Stuff_41:
(Start: 7 @30816 has 8 MA's), (11, 30846), (12, 30855), (24, 30999), (26, 31020), (29, 31056), (34, 31107), (36, 31146), (39, 31206),

Gene: UNTPL_43 Start: 30879, Stop: 31271, Start Num: 7
Candidate Starts for UNTPL_43:
(Start: 7 @30879 has 8 MA's), (24, 31062), (29, 31119), (34, 31170), (36, 31209),