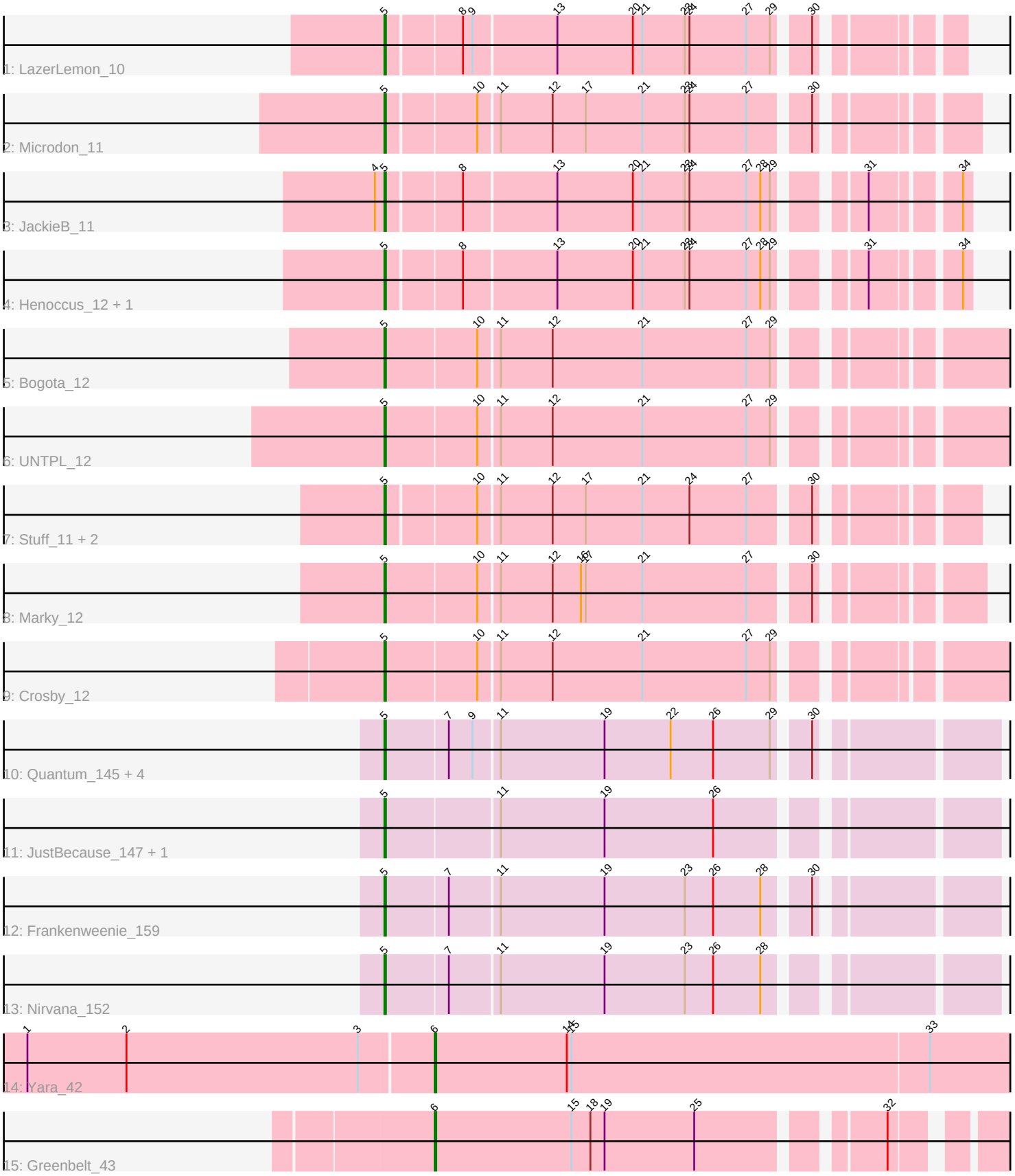
Pham 309214


1: LazerLemon_10
2: Microdon_11
3: JackieB_11
4: Henoccus_12 + 1
5: Bogota_12
6: UNTPL_12
7: Stuff_11 + 2
8: Marky_12
9: Crosby_12
10: Quantum_145 + 4
11: JustBecause_147 + 1
12: Frankenweenie_159
13: Nirvana_152
14: Yara_42
15: Greenbelt_43

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 309214 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309214 has 23 members, 0 are drafts.

Phages represented in each track:
• Track 1 : LazerLemon_10
• Track 2 : Microdon_11
• Track 3 : JackieB_11
• Track 4 : Henoccus_12, Araceli_12
• Track 5 : Bogota_12
• Track 6 : UNTPL_12
• Track 7 : Stuff_11, Intolerant_11, Shynx_11
• Track 8 : Marky_12
• Track 9 : Crosby_12
• Track 10 : Quantum_145, Kradal_146, Satis_146, Sarkar_146, EhyElimayoE_147
• Track 11 : JustBecause_147, Kela_145
• Track 12 : Frankenweenie_159
• Track 13 : Nirvana_152
• Track 14 : Yara_42
• Track 15 : Greenbelt_43

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

The start number called the most often in the published annotations is 5, it was called in 21 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Araceli_12, Bogota_12, Crosby_12, EhyElimayoE_147, Frankenweenie_159, Henoccus_12, Intolerant_11, JackieB_11, JustBecause_147, Kela_145, Kradal_146, LazerLemon_10, Marky_12, Microdon_11, Nirvana_152, Quantum_145, Sarkar_146, Satis_146, Shynx_11, Stuff_11, UNTPL_12,

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

Genes that do not have the "Most Annotated" start:
• Greenbelt_43, Yara_42,

Summary by start number:

Start 5:
• Found in 21 of 23 (91.3%) 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: Araceli_12 (BH), Bogota_12 (BH), Crosby_12 (BH), EhyElimayoE_147 (BM), Frankenweenie_159 (BM), Henoccus_12 (BH), Intolerant_11 (BH), JackieB_11 (BH), JustBecause_147 (BM), Kela_145 (BM), Kradal_146 (BM), LazerLemon_10 (BH), Marky_12 (BH), Microdon_11 (BH), Nirvana_152 (BM), Quantum_145 (BM), Sarkar_146 (BM), Satis_146 (BM), Shynx_11 (BH), Stuff_11 (BH), UNTPL_12 (BH),

Start 6:
• Found in 2 of 23 (8.7%) of genes in pham
• Manual Annotations of this start: 2 of 23
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Greenbelt_43 (BN), Yara_42 (BN),

Summary by clusters:

There are 3 clusters represented in this pham: BM, BN, BH,

Info for manual annotations of cluster BH:
•Start number 5 was manually annotated 12 times for cluster BH.

Info for manual annotations of cluster BM:
•Start number 5 was manually annotated 9 times for cluster BM.

Info for manual annotations of cluster BN:
•Start number 6 was manually annotated 2 times for cluster BN.

Gene Information:

Gene: Araceli_12 Start: 9111, Stop: 8779, Start Num: 5
Candidate Starts for Araceli_12:
(Start: 5 @9111 has 21 MA's), (8, 9066), (13, 9009), (20, 8961), (21, 8955), (23, 8928), (24, 8925), (27, 8889), (28, 8880), (29, 8874), (31, 8832), (34, 8784),

Gene: Bogota_12 Start: 9203, Stop: 8844, Start Num: 5
Candidate Starts for Bogota_12:
(Start: 5 @9203 has 21 MA's), (10, 9146), (11, 9134), (12, 9101), (21, 9044), (27, 8978), (29, 8963),

Gene: Crosby_12 Start: 9225, Stop: 8866, Start Num: 5
Candidate Starts for Crosby_12:
(Start: 5 @9225 has 21 MA's), (10, 9168), (11, 9156), (12, 9123), (21, 9066), (27, 9000), (29, 8985),

Gene: EhyElimayoE_147 Start: 91702, Stop: 91343, Start Num: 5
Candidate Starts for EhyElimayoE_147:
(Start: 5 @91702 has 21 MA's), (7, 91663), (9, 91648), (11, 91633), (19, 91567), (22, 91525), (26, 91498), (29, 91462), (30, 91444),

Gene: Frankenweenie_159 Start: 98061, Stop: 97702, Start Num: 5
Candidate Starts for Frankenweenie_159:
(Start: 5 @98061 has 21 MA's), (7, 98022), (11, 97992), (19, 97926), (23, 97875), (26, 97857), (28, 97827), (30, 97803),

Gene: Greenbelt_43 Start: 30594, Stop: 30268, Start Num: 6
Candidate Starts for Greenbelt_43:
(Start: 6 @30594 has 2 MA's), (15, 30507), (18, 30495), (19, 30486), (25, 30429), (32, 30327),

Gene: Henoccus_12 Start: 9132, Stop: 8800, Start Num: 5
Candidate Starts for Henoccus_12:
(Start: 5 @9132 has 21 MA's), (8, 9087), (13, 9030), (20, 8982), (21, 8976), (23, 8949), (24, 8946), (27, 8910), (28, 8901), (29, 8895), (31, 8853), (34, 8805),

Gene: Intolerant_11 Start: 9085, Stop: 8747, Start Num: 5
Candidate Starts for Intolerant_11:
(Start: 5 @9085 has 21 MA's), (10, 9031), (11, 9019), (12, 8986), (17, 8965), (21, 8929), (24, 8899), (27, 8863), (30, 8830),

Gene: JackieB_11 Start: 8987, Stop: 8655, Start Num: 5
Candidate Starts for JackieB_11:
(4, 8993), (Start: 5 @8987 has 21 MA's), (8, 8942), (13, 8885), (20, 8837), (21, 8831), (23, 8804), (24, 8801), (27, 8765), (28, 8756), (29, 8750), (31, 8708), (34, 8660),

Gene: JustBecause_147 Start: 91619, Stop: 91260, Start Num: 5
Candidate Starts for JustBecause_147:
(Start: 5 @91619 has 21 MA's), (11, 91550), (19, 91484), (26, 91415),

Gene: Kela_145 Start: 91493, Stop: 91134, Start Num: 5
Candidate Starts for Kela_145:
(Start: 5 @91493 has 21 MA's), (11, 91424), (19, 91358), (26, 91289),

Gene: Kradal_146 Start: 91699, Stop: 91340, Start Num: 5
Candidate Starts for Kradal_146:
(Start: 5 @91699 has 21 MA's), (7, 91660), (9, 91645), (11, 91630), (19, 91564), (22, 91522), (26, 91495), (29, 91459), (30, 91441),

Gene: LazerLemon_10 Start: 8976, Stop: 8647, Start Num: 5
Candidate Starts for LazerLemon_10:
(Start: 5 @8976 has 21 MA's), (8, 8931), (9, 8925), (13, 8874), (20, 8826), (21, 8820), (23, 8793), (24, 8790), (27, 8754), (29, 8739), (30, 8721),

Gene: Marky_12 Start: 9157, Stop: 8813, Start Num: 5
Candidate Starts for Marky_12:
(Start: 5 @9157 has 21 MA's), (10, 9100), (11, 9088), (12, 9055), (16, 9037), (17, 9034), (21, 8998), (27, 8932), (30, 8899),

Gene: Microdon_11 Start: 8904, Stop: 8566, Start Num: 5
Candidate Starts for Microdon_11:
(Start: 5 @8904 has 21 MA's), (10, 8850), (11, 8838), (12, 8805), (17, 8784), (21, 8748), (23, 8721), (24, 8718), (27, 8682), (30, 8649),

Gene: Nirvana_152 Start: 96483, Stop: 96124, Start Num: 5

Candidate Starts for Nirvana_152:
(Start: 5 @96483 has 21 MA's), (7, 96444), (11, 96414), (19, 96348), (23, 96297), (26, 96279), (28, 96249),

Gene: Quantum_145 Start: 91699, Stop: 91340, Start Num: 5
Candidate Starts for Quantum_145:
(Start: 5 @91699 has 21 MA's), (7, 91660), (9, 91645), (11, 91630), (19, 91564), (22, 91522), (26, 91495), (29, 91459), (30, 91441),

Gene: Sarkar_146 Start: 91699, Stop: 91340, Start Num: 5
Candidate Starts for Sarkar_146:
(Start: 5 @91699 has 21 MA's), (7, 91660), (9, 91645), (11, 91630), (19, 91564), (22, 91522), (26, 91495), (29, 91459), (30, 91441),

Gene: Satis_146 Start: 91695, Stop: 91336, Start Num: 5
Candidate Starts for Satis_146:
(Start: 5 @91695 has 21 MA's), (7, 91656), (9, 91641), (11, 91626), (19, 91560), (22, 91518), (26, 91491), (29, 91455), (30, 91437),

Gene: Shynx_11 Start: 9085, Stop: 8747, Start Num: 5
Candidate Starts for Shynx_11:
(Start: 5 @9085 has 21 MA's), (10, 9031), (11, 9019), (12, 8986), (17, 8965), (21, 8929), (24, 8899), (27, 8863), (30, 8830),

Gene: Stuff_11 Start: 9088, Stop: 8750, Start Num: 5
Candidate Starts for Stuff_11:
(Start: 5 @9088 has 21 MA's), (10, 9034), (11, 9022), (12, 8989), (17, 8968), (21, 8932), (24, 8902), (27, 8866), (30, 8833),

Gene: UNTPL_12 Start: 9206, Stop: 8847, Start Num: 5
Candidate Starts for UNTPL_12:
(Start: 5 @9206 has 21 MA's), (10, 9149), (11, 9137), (12, 9104), (21, 9047), (27, 8981), (29, 8966),

Gene: Yara_42 Start: 33251, Stop: 32874, Start Num: 6
Candidate Starts for Yara_42:
(1, 33506), (2, 33443), (3, 33296), (Start: 6 @33251 has 2 MA's), (14, 33167), (15, 33164), (33, 32939),