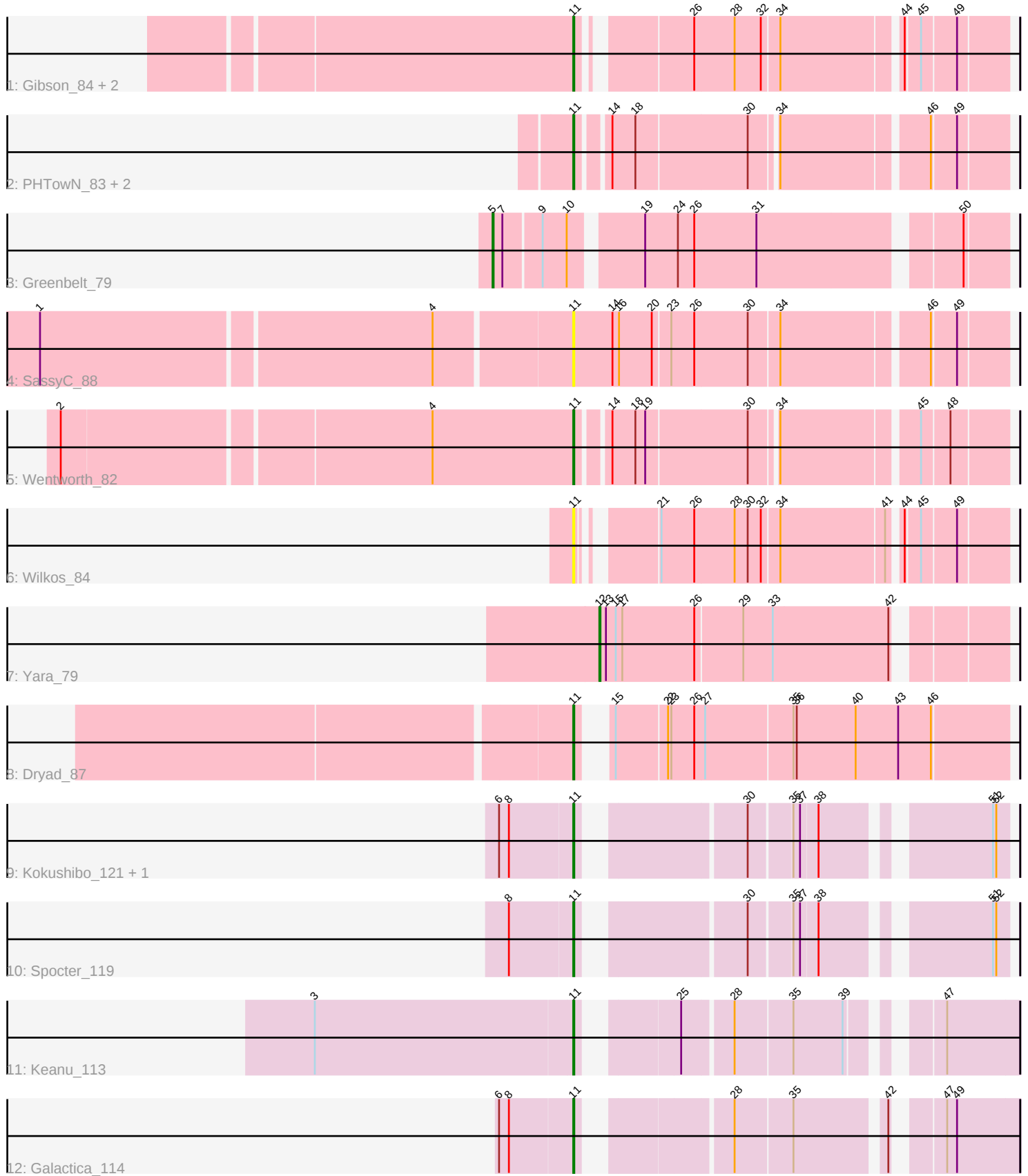


Pham 309451



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 309451 Report

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

Pham number 309451 has 17 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Gibson_84, Virizion_90, Rooney_84
- Track 2 : PHTowN_83, ShakeNBake_83, Lizz_83
- Track 3 : Greenbelt_79
- Track 4 : SassyC_88
- Track 5 : Wentworth_82
- Track 6 : Wilkos_84
- Track 7 : Yara_79
- Track 8 : Dryad_87
- Track 9 : Kokushibo_121, Hiyaa_122
- Track 10 : Spocter_119
- Track 11 : Keanu_113
- Track 12 : Galactica_114

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

The start number called the most often in the published annotations is 11, it was called in 12 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Dryad_87, Galactica_114, Gibson_84, Hiyaa_122, Keanu_113, Kokushibo_121, Lizz_83, PHTowN_83, Rooney_84, SassyC_88, ShakeNBake_83, Spocter_119, Virizion_90, Wentworth_82, Wilkos_84,

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

-

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

- Greenbelt_79, Yara_79,

Summary by start number:

Start 5:

- Found in 1 of 17 (5.9%) of genes in pham
- Manual Annotations of this start: 1 of 14

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Greenbelt_79 (BN),

Start 11:

- Found in 15 of 17 (88.2%) of genes in pham
- Manual Annotations of this start: 12 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dryad_87 (BN), Galactica_114 (BQ), Gibson_84 (BN), Hiya_122 (BQ), Keanu_113 (BQ), Kokushibo_121 (BQ), Lizz_83 (BN), PHTowN_83 (BN), Rooney_84 (BN), SassyC_88 (BN), ShakeNBake_83 (BN), Spocter_119 (BQ), Virizion_90 (BN), Wentworth_82 (BN), Wilkos_84 (BN),

Start 12:

- Found in 1 of 17 (5.9%) of genes in pham
- Manual Annotations of this start: 1 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Yara_79 (BN),

Summary by clusters:

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

Info for manual annotations of cluster BN:

- Start number 5 was manually annotated 1 time for cluster BN.
- Start number 11 was manually annotated 7 times for cluster BN.
- Start number 12 was manually annotated 1 time for cluster BN.

Info for manual annotations of cluster BQ:

- Start number 11 was manually annotated 5 times for cluster BQ.

Gene Information:

Gene: Dryad_87 Start: 57335, Stop: 56973, Start Num: 11

Candidate Starts for Dryad_87:

(Start: 11 @57335 has 12 MA's), (15, 57323), (22, 57278), (23, 57275), (26, 57254), (27, 57245), (35, 57167), (36, 57164), (40, 57110), (43, 57071), (46, 57041),

Gene: Galactica_114 Start: 79268, Stop: 79603, Start Num: 11

Candidate Starts for Galactica_114:

(6, 79202), (8, 79211), (Start: 11 @79268 has 12 MA's), (28, 79379), (35, 79430), (42, 79505), (47, 79538), (49, 79547),

Gene: Gibson_84 Start: 56774, Stop: 56427, Start Num: 11

Candidate Starts for Gibson_84:

(Start: 11 @56774 has 12 MA's), (26, 56690), (28, 56654), (32, 56630), (34, 56615), (44, 56513), (45, 56501), (49, 56471),

Gene: Greenbelt_79 Start: 52007, Stop: 51579, Start Num: 5

Candidate Starts for Greenbelt_79:

(Start: 5 @52007 has 1 MA's), (7, 51998), (9, 51965), (10, 51944), (19, 51887), (24, 51857), (26, 51842), (31, 51785), (50, 51617),

Gene: Hiyaa_122 Start: 81305, Stop: 81631, Start Num: 11

Candidate Starts for Hiyaa_122:

(6, 81239), (8, 81248), (Start: 11 @81305 has 12 MA's), (30, 81431), (35, 81467), (37, 81473), (38, 81488), (51, 81617), (52, 81620),

Gene: Keanu_113 Start: 79948, Stop: 80280, Start Num: 11

Candidate Starts for Keanu_113:

(3, 79714), (Start: 11 @79948 has 12 MA's), (25, 80017), (28, 80059), (35, 80110), (39, 80155), (47, 80215),

Gene: Kokushibo_121 Start: 81345, Stop: 81671, Start Num: 11

Candidate Starts for Kokushibo_121:

(6, 81279), (8, 81288), (Start: 11 @81345 has 12 MA's), (30, 81471), (35, 81507), (37, 81513), (38, 81528), (51, 81657), (52, 81660),

Gene: Lizz_83 Start: 56767, Stop: 56411, Start Num: 11

Candidate Starts for Lizz_83:

(Start: 11 @56767 has 12 MA's), (14, 56743), (18, 56722), (30, 56623), (34, 56602), (46, 56476), (49, 56455),

Gene: PHTowN_83 Start: 56765, Stop: 56409, Start Num: 11

Candidate Starts for PHTowN_83:

(Start: 11 @56765 has 12 MA's), (14, 56741), (18, 56720), (30, 56621), (34, 56600), (46, 56474), (49, 56453),

Gene: Rooney_84 Start: 56782, Stop: 56435, Start Num: 11

Candidate Starts for Rooney_84:

(Start: 11 @56782 has 12 MA's), (26, 56698), (28, 56662), (32, 56638), (34, 56623), (44, 56521), (45, 56509), (49, 56479),

Gene: SassyC_88 Start: 56813, Stop: 56439, Start Num: 11

Candidate Starts for SassyC_88:

(1, 57281), (4, 56933), (Start: 11 @56813 has 12 MA's), (14, 56777), (16, 56771), (20, 56741), (23, 56726), (26, 56705), (30, 56657), (34, 56630), (46, 56504), (49, 56483),

Gene: ShakeNBake_83 Start: 56792, Stop: 56436, Start Num: 11

Candidate Starts for ShakeNBake_83:

(Start: 11 @56792 has 12 MA's), (14, 56768), (18, 56747), (30, 56648), (34, 56627), (46, 56501), (49, 56480),

Gene: Spocter_119 Start: 80837, Stop: 81163, Start Num: 11

Candidate Starts for Spocter_119:

(8, 80780), (Start: 11 @80837 has 12 MA's), (30, 80963), (35, 80999), (37, 81005), (38, 81020), (51, 81149), (52, 81152),

Gene: Virizion_90 Start: 56970, Stop: 56623, Start Num: 11

Candidate Starts for Virizion_90:

(Start: 11 @56970 has 12 MA's), (26, 56886), (28, 56850), (32, 56826), (34, 56811), (44, 56709), (45, 56697), (49, 56667),

Gene: Wentworth_82 Start: 56226, Stop: 55870, Start Num: 11

Candidate Starts for Wentworth_82:

(2, 56679), (4, 56355), (Start: 11 @56226 has 12 MA's), (14, 56202), (18, 56181), (19, 56172), (30, 56082), (34, 56061), (45, 55944), (48, 55920),

Gene: Wilkos_84 Start: 56374, Stop: 56030, Start Num: 11

Candidate Starts for Wilkos_84:

(Start: 11 @56374 has 12 MA's), (21, 56323), (26, 56293), (28, 56257), (30, 56245), (32, 56233), (34, 56218), (41, 56125), (44, 56116), (45, 56104), (49, 56074),

Gene: Yara_79 Start: 54837, Stop: 54490, Start Num: 12

Candidate Starts for Yara_79:

(Start: 12 @54837 has 1 MA's), (13, 54831), (15, 54822), (17, 54816), (26, 54750), (29, 54708), (33, 54681), (42, 54576),