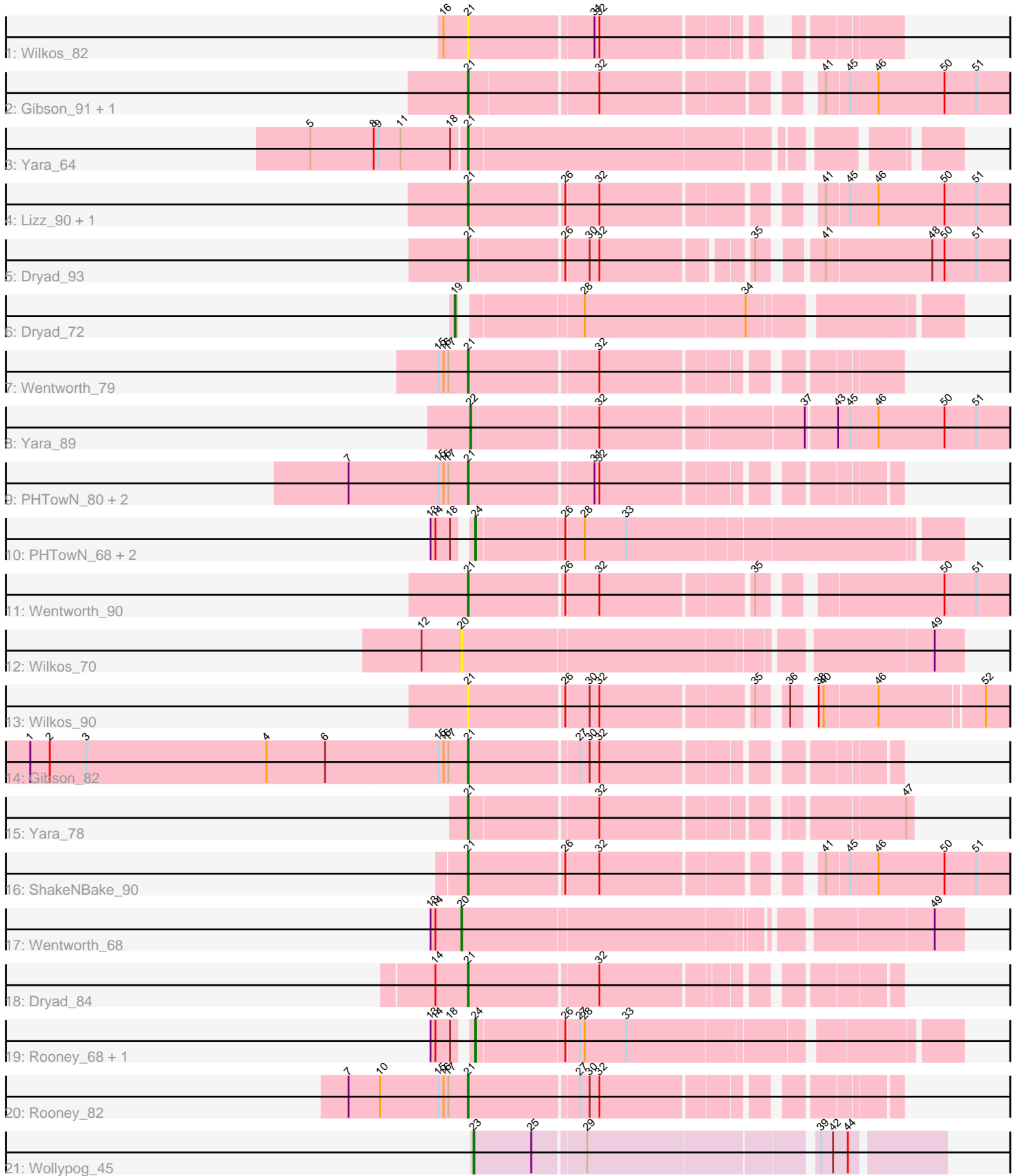


Pham 163854



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 163854 Report

This analysis was run 04/28/24 on database version 559.

Pham number 163854 has 28 members, 3 are drafts.

Phages represented in each track:

- Track 1 : Wilkos_82
- Track 2 : Gibson_91, Rooney_91
- Track 3 : Yara_64
- Track 4 : Lizz_90, PHTowN_90
- Track 5 : Dryad_93
- Track 6 : Dryad_72
- Track 7 : Wentworth_79
- Track 8 : Yara_89
- Track 9 : PHTowN_80, Lizz_80, ShakeNBake_80
- Track 10 : PHTowN_68, ShakeNBake_68, Lizz_68
- Track 11 : Wentworth_90
- Track 12 : Wilkos_70
- Track 13 : Wilkos_90
- Track 14 : Gibson_82
- Track 15 : Yara_78
- Track 16 : ShakeNBake_90
- Track 17 : Wentworth_68
- Track 18 : Dryad_84
- Track 19 : Rooney_68, Gibson_68
- Track 20 : Rooney_82
- Track 21 : Wollypog_45

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

The start number called the most often in the published annotations is 21, it was called in 16 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Dryad_84, Dryad_93, Gibson_82, Gibson_91, Lizz_80, Lizz_90, PHTowN_80, PHTowN_90, Rooney_82, Rooney_91, ShakeNBake_80, ShakeNBake_90, Wentworth_79, Wentworth_90, Wilkos_82, Wilkos_90, Yara_64, Yara_78,

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

-

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

- Dryad_72, Gibson_68, Lizz_68, PHTowN_68, Rooney_68, ShakeNBake_68, Wentworth_68, Wilkos_70, Wollypog_45, Yara_89,

Summary by start number:

Start 19:

- Found in 1 of 28 (3.6%) of genes in pham
- Manual Annotations of this start: 1 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dryad_72 (BN),

Start 20:

- Found in 2 of 28 (7.1%) of genes in pham
- Manual Annotations of this start: 1 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Wentworth_68 (BN), Wilkos_70 (BN),

Start 21:

- Found in 18 of 28 (64.3%) of genes in pham
- Manual Annotations of this start: 16 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Dryad_84 (BN), Dryad_93 (BN), Gibson_82 (BN), Gibson_91 (BN), Lizz_80 (BN), Lizz_90 (BN), PHTowN_80 (BN), PHTowN_90 (BN), Rooney_82 (BN), Rooney_91 (BN), ShakeNBake_80 (BN), ShakeNBake_90 (BN), Wentworth_79 (BN), Wentworth_90 (BN), Wilkos_82 (BN), Wilkos_90 (BN), Yara_64 (BN), Yara_78 (BN),

Start 22:

- Found in 1 of 28 (3.6%) of genes in pham
- Manual Annotations of this start: 1 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Yara_89 (BN),

Start 23:

- Found in 1 of 28 (3.6%) of genes in pham
- Manual Annotations of this start: 1 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Wollypog_45 (singleton),

Start 24:

- Found in 5 of 28 (17.9%) of genes in pham
- Manual Annotations of this start: 5 of 25
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gibson_68 (BN), Lizz_68 (BN), PHTowN_68 (BN), Rooney_68 (BN), ShakeNBake_68 (BN),

Summary by clusters:

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

Info for manual annotations of cluster BN:

- Start number 19 was manually annotated 1 time for cluster BN.
- Start number 20 was manually annotated 1 time for cluster BN.
- Start number 21 was manually annotated 16 times for cluster BN.
- Start number 22 was manually annotated 1 time for cluster BN.
- Start number 24 was manually annotated 5 times for cluster BN.

Gene Information:

Gene: Dryad_93 Start: 59282, Stop: 58686, Start Num: 21

Candidate Starts for Dryad_93:

(Start: 21 @59282 has 16 MA's), (26, 59171), (30, 59144), (32, 59132), (35, 58970), (41, 58910), (48, 58784), (50, 58769), (51, 58730),

Gene: Dryad_72 Start: 48943, Stop: 48380, Start Num: 19

Candidate Starts for Dryad_72:

(Start: 19 @48943 has 1 MA's), (28, 48808), (34, 48613),

Gene: Dryad_84 Start: 55433, Stop: 54966, Start Num: 21

Candidate Starts for Dryad_84:

(14, 55472), (Start: 21 @55433 has 16 MA's), (32, 55280),

Gene: Gibson_91 Start: 59251, Stop: 58649, Start Num: 21

Candidate Starts for Gibson_91:

(Start: 21 @59251 has 16 MA's), (32, 59101), (41, 58873), (45, 58846), (46, 58813), (50, 58732), (51, 58693),

Gene: Gibson_82 Start: 55230, Stop: 54763, Start Num: 21

Candidate Starts for Gibson_82:

(1, 55767), (2, 55743), (3, 55698), (4, 55476), (6, 55404), (15, 55266), (16, 55260), (17, 55254), (Start: 21 @55230 has 16 MA's), (27, 55101), (30, 55089), (32, 55077),

Gene: Gibson_68 Start: 48192, Stop: 47644, Start Num: 24

Candidate Starts for Gibson_68:

(13, 48231), (14, 48225), (18, 48207), (Start: 24 @48192 has 5 MA's), (26, 48087), (27, 48072), (28, 48066), (33, 48015),

Gene: Lizz_90 Start: 59245, Stop: 58643, Start Num: 21

Candidate Starts for Lizz_90:

(Start: 21 @59245 has 16 MA's), (26, 59131), (32, 59092), (41, 58867), (45, 58840), (46, 58807), (50, 58726), (51, 58687),

Gene: Lizz_80 Start: 54885, Stop: 54421, Start Num: 21

Candidate Starts for Lizz_80:

(7, 55032), (15, 54921), (16, 54915), (17, 54909), (Start: 21 @54885 has 16 MA's), (31, 54738), (32, 54732),

Gene: Lizz_68 Start: 48031, Stop: 47468, Start Num: 24

Candidate Starts for Lizz_68:

(13, 48070), (14, 48064), (18, 48046), (Start: 24 @48031 has 5 MA's), (26, 47926), (28, 47905), (33, 47854),

Gene: PHTowN_80 Start: 54883, Stop: 54419, Start Num: 21
Candidate Starts for PHTowN_80:
(7, 55030), (15, 54919), (16, 54913), (17, 54907), (Start: 21 @54883 has 16 MA's), (31, 54736), (32, 54730),

Gene: PHTowN_68 Start: 48029, Stop: 47466, Start Num: 24
Candidate Starts for PHTowN_68:
(13, 48068), (14, 48062), (18, 48044), (Start: 24 @48029 has 5 MA's), (26, 47924), (28, 47903), (33, 47852),

Gene: PHTowN_90 Start: 59243, Stop: 58641, Start Num: 21
Candidate Starts for PHTowN_90:
(Start: 21 @59243 has 16 MA's), (26, 59129), (32, 59090), (41, 58865), (45, 58838), (46, 58805), (50, 58724), (51, 58685),

Gene: Rooney_91 Start: 59259, Stop: 58657, Start Num: 21
Candidate Starts for Rooney_91:
(Start: 21 @59259 has 16 MA's), (32, 59109), (41, 58881), (45, 58854), (46, 58821), (50, 58740), (51, 58701),

Gene: Rooney_68 Start: 48168, Stop: 47620, Start Num: 24
Candidate Starts for Rooney_68:
(13, 48207), (14, 48201), (18, 48183), (Start: 24 @48168 has 5 MA's), (26, 48063), (27, 48048), (28, 48042), (33, 47991),

Gene: Rooney_82 Start: 55236, Stop: 54769, Start Num: 21
Candidate Starts for Rooney_82:
(7, 55383), (10, 55344), (15, 55272), (16, 55266), (17, 55260), (Start: 21 @55236 has 16 MA's), (27, 55107), (30, 55095), (32, 55083),

Gene: ShakeNBake_68 Start: 48056, Stop: 47493, Start Num: 24
Candidate Starts for ShakeNBake_68:
(13, 48095), (14, 48089), (18, 48071), (Start: 24 @48056 has 5 MA's), (26, 47951), (28, 47930), (33, 47879),

Gene: ShakeNBake_90 Start: 59266, Stop: 58664, Start Num: 21
Candidate Starts for ShakeNBake_90:
(Start: 21 @59266 has 16 MA's), (26, 59152), (32, 59113), (41, 58888), (45, 58861), (46, 58828), (50, 58747), (51, 58708),

Gene: ShakeNBake_80 Start: 54910, Stop: 54446, Start Num: 21
Candidate Starts for ShakeNBake_80:
(7, 55057), (15, 54946), (16, 54940), (17, 54934), (Start: 21 @54910 has 16 MA's), (31, 54763), (32, 54757),

Gene: Wentworth_79 Start: 54336, Stop: 53863, Start Num: 21
Candidate Starts for Wentworth_79:
(15, 54372), (16, 54366), (17, 54360), (Start: 21 @54336 has 16 MA's), (32, 54183),

Gene: Wentworth_90 Start: 58648, Stop: 58046, Start Num: 21
Candidate Starts for Wentworth_90:
(Start: 21 @58648 has 16 MA's), (26, 58534), (32, 58495), (35, 58321), (50, 58129), (51, 58090),

Gene: Wentworth_68 Start: 48157, Stop: 47597, Start Num: 20
Candidate Starts for Wentworth_68:
(13, 48193), (14, 48187), (Start: 20 @48157 has 1 MA's), (49, 47632),

Gene: Wilkos_82 Start: 54813, Stop: 54361, Start Num: 21
Candidate Starts for Wilkos_82:
(16, 54843), (Start: 21 @54813 has 16 MA's), (31, 54666), (32, 54660),

Gene: Wilkos_70 Start: 48319, Stop: 47750, Start Num: 20
Candidate Starts for Wilkos_70:
(12, 48367), (Start: 20 @48319 has 1 MA's), (49, 47785),

Gene: Wilkos_90 Start: 58442, Stop: 57849, Start Num: 21
Candidate Starts for Wilkos_90:
(Start: 21 @58442 has 16 MA's), (26, 58328), (30, 58301), (32, 58289), (35, 58115), (36, 58088), (38, 58073), (40, 58067), (46, 58004), (52, 57881),

Gene: Wollypog_45 Start: 32939, Stop: 33472, Start Num: 23
Candidate Starts for Wollypog_45:
(Start: 23 @32939 has 1 MA's), (25, 33008), (29, 33068), (39, 33332), (42, 33347), (44, 33365),

Gene: Yara_64 Start: 46991, Stop: 46455, Start Num: 21
Candidate Starts for Yara_64:
(5, 47177), (8, 47099), (9, 47093), (11, 47066), (18, 47006), (Start: 21 @46991 has 16 MA's),

Gene: Yara_89 Start: 59333, Stop: 58701, Start Num: 22
Candidate Starts for Yara_89:
(Start: 22 @59333 has 1 MA's), (32, 59186), (37, 58949), (43, 58913), (45, 58898), (46, 58865), (50, 58784), (51, 58745),

Gene: Yara_78 Start: 53975, Stop: 53490, Start Num: 21
Candidate Starts for Yara_78:
(Start: 21 @53975 has 16 MA's), (32, 53825), (47, 53498),