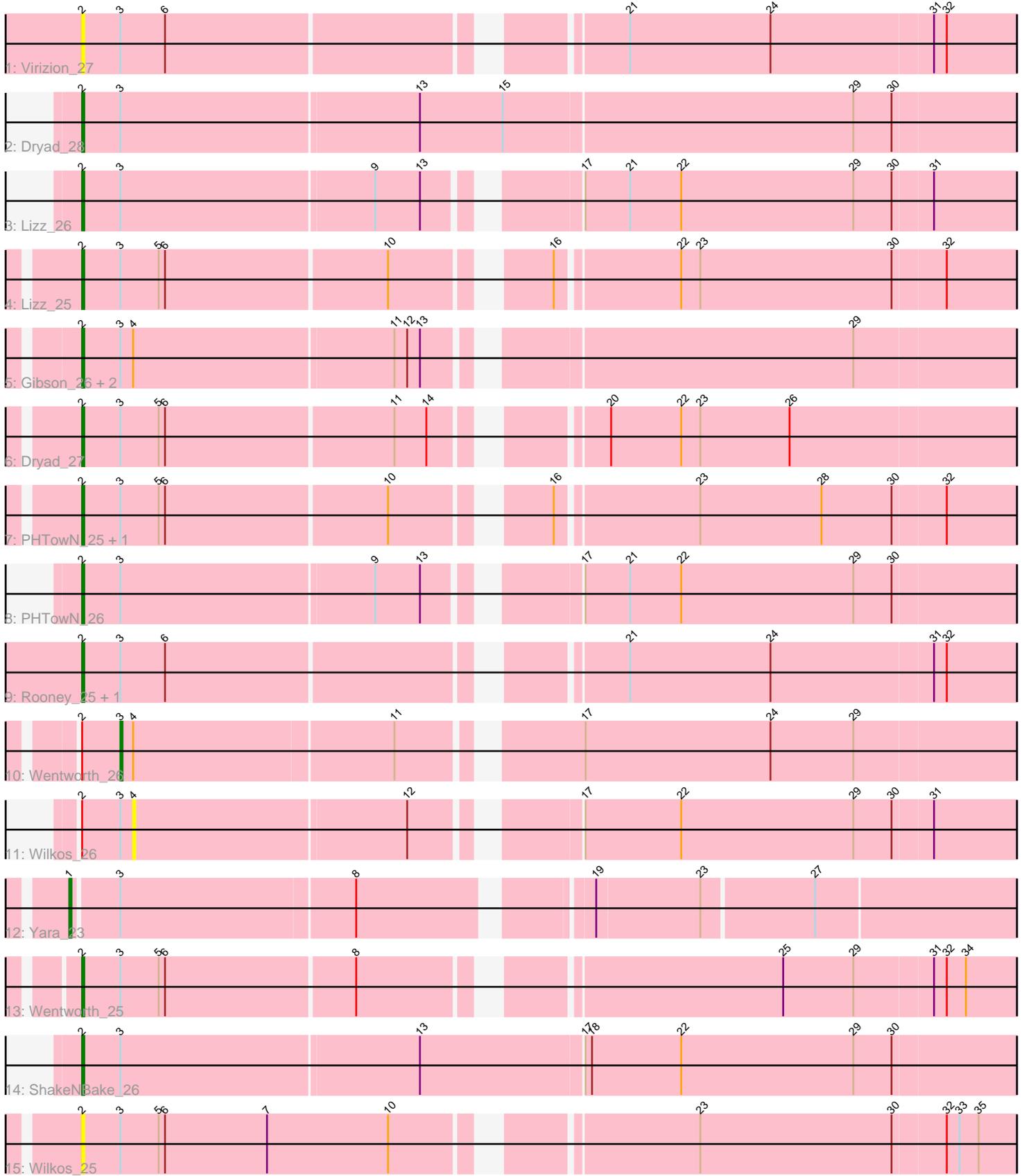


Pham 291578



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 291578 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291578 has 19 members, 4 are drafts.

Phages represented in each track:

- Track 1 : Virizion_27
- Track 2 : Dryad_28
- Track 3 : Lizz_26
- Track 4 : Lizz_25
- Track 5 : Gibson_26, Rooney_26, Virizion_28
- Track 6 : Dryad_27
- Track 7 : PHTowN_25, ShakeNBake_25
- Track 8 : PHTowN_26
- Track 9 : Rooney_25, Gibson_25
- Track 10 : Wentworth_26
- Track 11 : Wilkos_26
- Track 12 : Yara_23
- Track 13 : Wentworth_25
- Track 14 : ShakeNBake_26
- Track 15 : Wilkos_25

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

The start number called the most often in the published annotations is 2, it was called in 13 of the 15 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Dryad_27, Dryad_28, Gibson_25, Gibson_26, Lizz_25, Lizz_26, PHTowN_25, PHTowN_26, Rooney_25, Rooney_26, ShakeNBake_25, ShakeNBake_26, Virizion_27, Virizion_28, Wentworth_25, Wilkos_25,

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

- Wentworth_26, Wilkos_26,

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

- Yara_23,

Summary by start number:

Start 1:

- Found in 1 of 19 (5.3%) of genes in pham
- Manual Annotations of this start: 1 of 15
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Yara_23 (BN),

Start 2:

- Found in 18 of 19 (94.7%) of genes in pham
- Manual Annotations of this start: 13 of 15
- Called 88.9% of time when present
- Phage (with cluster) where this start called: Dryad_27 (BN), Dryad_28 (BN), Gibson_25 (BN), Gibson_26 (BN), Lizz_25 (BN), Lizz_26 (BN), PHTowN_25 (BN), PHTowN_26 (BN), Rooney_25 (BN), Rooney_26 (BN), ShakeNBake_25 (BN), ShakeNBake_26 (BN), Virizion_27 (BN), Virizion_28 (BN), Wentworth_25 (BN), Wilkos_25 (BN),

Start 3:

- Found in 19 of 19 (100.0%) of genes in pham
- Manual Annotations of this start: 1 of 15
- Called 5.3% of time when present
- Phage (with cluster) where this start called: Wentworth_26 (BN),

Start 4:

- Found in 5 of 19 (26.3%) of genes in pham
- No Manual Annotations of this start.
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Wilkos_26 (BN),

Summary by clusters:

There is one cluster represented in this pham: BN

Info for manual annotations of cluster BN:

- Start number 1 was manually annotated 1 time for cluster BN.
- Start number 2 was manually annotated 13 times for cluster BN.
- Start number 3 was manually annotated 1 time for cluster BN.

Gene Information:

Gene: Dryad_28 Start: 19324, Stop: 19755, Start Num: 2

Candidate Starts for Dryad_28:

(Start: 2 @19324 has 13 MA's), (Start: 3 @19342 has 1 MA's), (13, 19480), (15, 19519), (29, 19681), (30, 19699),

Gene: Dryad_27 Start: 18904, Stop: 19314, Start Num: 2

Candidate Starts for Dryad_27:

(Start: 2 @18904 has 13 MA's), (Start: 3 @18922 has 1 MA's), (5, 18940), (6, 18943), (11, 19048), (14, 19063), (20, 19126), (22, 19159), (23, 19168), (26, 19210),

Gene: Gibson_26 Start: 19017, Stop: 19430, Start Num: 2

Candidate Starts for Gibson_26:

(Start: 2 @19017 has 13 MA's), (Start: 3 @19035 has 1 MA's), (4, 19041), (11, 19161), (12, 19167), (13, 19173), (29, 19356),

Gene: Gibson_25 Start: 18596, Stop: 19006, Start Num: 2

Candidate Starts for Gibson_25:

(Start: 2 @18596 has 13 MA's), (Start: 3 @18614 has 1 MA's), (6, 18635), (21, 18827), (24, 18893), (31, 18968), (32, 18974),

Gene: Lizz_26 Start: 18825, Stop: 19238, Start Num: 2

Candidate Starts for Lizz_26:

(Start: 2 @18825 has 13 MA's), (Start: 3 @18843 has 1 MA's), (9, 18960), (13, 18981), (17, 19038), (21, 19059), (22, 19083), (29, 19164), (30, 19182), (31, 19200),

Gene: Lizz_25 Start: 18405, Stop: 18815, Start Num: 2

Candidate Starts for Lizz_25:

(Start: 2 @18405 has 13 MA's), (Start: 3 @18423 has 1 MA's), (5, 18441), (6, 18444), (10, 18546), (16, 18606), (22, 18660), (23, 18669), (30, 18759), (32, 18783),

Gene: PHTowN_25 Start: 18405, Stop: 18815, Start Num: 2

Candidate Starts for PHTowN_25:

(Start: 2 @18405 has 13 MA's), (Start: 3 @18423 has 1 MA's), (5, 18441), (6, 18444), (10, 18546), (16, 18606), (23, 18669), (28, 18726), (30, 18759), (32, 18783),

Gene: PHTowN_26 Start: 18825, Stop: 19238, Start Num: 2

Candidate Starts for PHTowN_26:

(Start: 2 @18825 has 13 MA's), (Start: 3 @18843 has 1 MA's), (9, 18960), (13, 18981), (17, 19038), (21, 19059), (22, 19083), (29, 19164), (30, 19182),

Gene: Rooney_26 Start: 19014, Stop: 19427, Start Num: 2

Candidate Starts for Rooney_26:

(Start: 2 @19014 has 13 MA's), (Start: 3 @19032 has 1 MA's), (4, 19038), (11, 19158), (12, 19164), (13, 19170), (29, 19353),

Gene: Rooney_25 Start: 18593, Stop: 19003, Start Num: 2

Candidate Starts for Rooney_25:

(Start: 2 @18593 has 13 MA's), (Start: 3 @18611 has 1 MA's), (6, 18632), (21, 18824), (24, 18890), (31, 18965), (32, 18971),

Gene: ShakeNBake_25 Start: 18405, Stop: 18815, Start Num: 2

Candidate Starts for ShakeNBake_25:

(Start: 2 @18405 has 13 MA's), (Start: 3 @18423 has 1 MA's), (5, 18441), (6, 18444), (10, 18546), (16, 18606), (23, 18669), (28, 18726), (30, 18759), (32, 18783),

Gene: ShakeNBake_26 Start: 18825, Stop: 19256, Start Num: 2

Candidate Starts for ShakeNBake_26:

(Start: 2 @18825 has 13 MA's), (Start: 3 @18843 has 1 MA's), (13, 18981), (17, 19056), (18, 19059), (22, 19101), (29, 19182), (30, 19200),

Gene: Virizion_27 Start: 18792, Stop: 19202, Start Num: 2

Candidate Starts for Virizion_27:

(Start: 2 @18792 has 13 MA's), (Start: 3 @18810 has 1 MA's), (6, 18831), (21, 19023), (24, 19089), (31, 19164), (32, 19170),

Gene: Virizion_28 Start: 19213, Stop: 19626, Start Num: 2

Candidate Starts for Virizion_28:

(Start: 2 @19213 has 13 MA's), (Start: 3 @19231 has 1 MA's), (4, 19237), (11, 19357), (12, 19363), (13, 19369), (29, 19552),

Gene: Wentworth_26 Start: 18658, Stop: 19056, Start Num: 3

Candidate Starts for Wentworth_26:

(Start: 2 @18640 has 13 MA's), (Start: 3 @18658 has 1 MA's), (4, 18664), (11, 18784), (17, 18856), (24, 18943), (29, 18982),

Gene: Wentworth_25 Start: 18219, Stop: 18629, Start Num: 2

Candidate Starts for Wentworth_25:

(Start: 2 @18219 has 13 MA's), (Start: 3 @18237 has 1 MA's), (5, 18255), (6, 18258), (8, 18345), (25, 18522), (29, 18555), (31, 18591), (32, 18597), (34, 18606),

Gene: Wilkos_26 Start: 18799, Stop: 19188, Start Num: 4

Candidate Starts for Wilkos_26:

(Start: 2 @18775 has 13 MA's), (Start: 3 @18793 has 1 MA's), (4, 18799), (12, 18925), (17, 18988), (22, 19033), (29, 19114), (30, 19132), (31, 19150),

Gene: Wilkos_25 Start: 18352, Stop: 18765, Start Num: 2

Candidate Starts for Wilkos_25:

(Start: 2 @18352 has 13 MA's), (Start: 3 @18370 has 1 MA's), (5, 18388), (6, 18391), (7, 18439), (10, 18496), (23, 18619), (30, 18709), (32, 18733), (33, 18739), (35, 18748),

Gene: Yara_23 Start: 18446, Stop: 18862, Start Num: 1

Candidate Starts for Yara_23:

(Start: 1 @18446 has 1 MA's), (Start: 3 @18467 has 1 MA's), (8, 18575), (19, 18671), (23, 18719), (27, 18770),