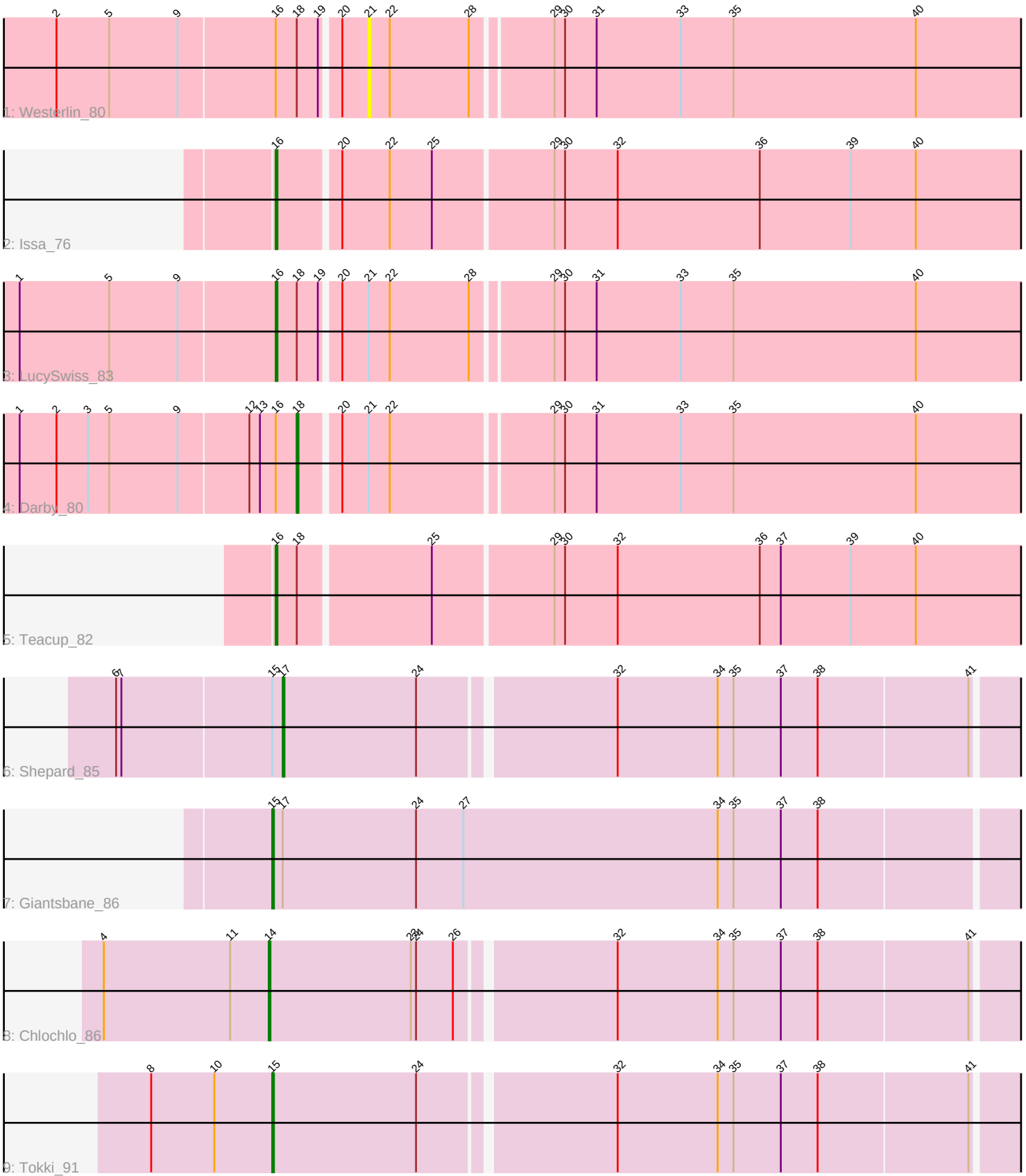
Pham 335580


2 5 9 16 18 19 20 21 22 28 29 30 31 33 35 40
1: Westerlin_80
16 20 22 25 29 30 32 36 39 40
2: Issa_76
1 5 9 16 18 19 20 21 22 28 29 30 31 33 35 40
3: LucySwiss_83
1 2 3 5 9 12 13 16 18 20 21 22 29 30 31 33 35 40
4: Darby_80
16 18 25 29 30 32 36 37 39 40
5: Teacup_82
6 7 15 17 24 32 34 35 37 38 41
6: Shepard_85
15 17 24 27 34 35 37 38
7: Giantsbane_86
4 11 14 23 24 26 32 34 35 37 38 41
8: Chlochlo_86
8 10 15 24 32 34 35 37 38 41
9: Tokki_91

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 335580 Report

This analysis was run 11/14/26 on database version 672.

Pham number 335580 has 9 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Westerlin_80
• Track 2 : Issa_76
• Track 3 : LucySwiss_83
• Track 4 : Darby_80
• Track 5 : Teacup_82
• Track 6 : Shepard_85
• Track 7 : Giantsbane_86
• Track 8 : Chlochlo_86
• Track 9 : Tokki_91

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

The start number called the most often in the published annotations is 16, it was called in 3 of the 8 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Issa_76, LucySwiss_83, Teacup_82,

Genes that have the "Most Annotated" start but do not call it:
• Darby_80, Westerlin_80,

Genes that do not have the "Most Annotated" start:
• Chlochlo_86, Giantsbane_86, Shepard_85, Tokki_91,

Summary by start number:

Start 14:
• Found in 1 of 9 (11.1%) of genes in pham
• Manual Annotations of this start: 1 of 8
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Chlochlo_86 (AU2),

Start 15:
• Found in 3 of 9 (33.3%) of genes in pham

• Manual Annotations of this start: 2 of 8
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Giantsbane_86 (AU2), Tokki_91 (AU2),

Start 16:
• Found in 5 of 9 (55.6%) of genes in pham
• Manual Annotations of this start: 3 of 8
• Called 60.0% of time when present
• Phage (with cluster) where this start called: Issa_76 (AU1), LucySwiss_83 (AU1), Teacup_82 (AU1),

Start 17:
• Found in 2 of 9 (22.2%) of genes in pham
• Manual Annotations of this start: 1 of 8
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Shepard_85 (AU2),

Start 18:
• Found in 4 of 9 (44.4%) of genes in pham
• Manual Annotations of this start: 1 of 8
• Called 25.0% of time when present
• Phage (with cluster) where this start called: Darby_80 (AU1),

Start 21:
• Found in 3 of 9 (33.3%) of genes in pham
• No Manual Annotations of this start.
• Called 33.3% of time when present
• Phage (with cluster) where this start called: Westerlin_80 (AU1),

Summary by clusters:

There are 2 clusters represented in this pham: AU1, AU2,

Info for manual annotations of cluster AU1:
•Start number 16 was manually annotated 3 times for cluster AU1.
•Start number 18 was manually annotated 1 time for cluster AU1.

Info for manual annotations of cluster AU2:
•Start number 14 was manually annotated 1 time for cluster AU2.
•Start number 15 was manually annotated 2 times for cluster AU2.
•Start number 17 was manually annotated 1 time for cluster AU2.

Gene Information:

Gene: Chlochlo_86 Start: 51758, Stop: 52198, Start Num: 14
Candidate Starts for Chlochlo_86:
(4, 51665), (11, 51737), (Start: 14 @51758 has 1 MA's), (23, 51839), (24, 51842), (26, 51863), (32, 51947), (34, 52004), (35, 52013), (37, 52040), (38, 52061), (41, 52145),

Gene: Darby_80 Start: 51957, Stop: 52382, Start Num: 18
Candidate Starts for Darby_80:

(1, 51801), (2, 51822), (3, 51840), (5, 51852), (9, 51891), (12, 51930), (13, 51936), (Start: 16 @51945 has 3 MA's), (Start: 18 @51957 has 1 MA's), (20, 51978), (21, 51993), (22, 52005), (29, 52092), (30, 52098), (31, 52116), (33, 52164), (35, 52194), (40, 52296),

Gene: Giantsbane_86 Start: 51216, Stop: 51662, Start Num: 15
Candidate Starts for Giantsbane_86:
(Start: 15 @51216 has 2 MA's), (Start: 17 @51222 has 1 MA's), (24, 51297), (27, 51324), (34, 51468), (35, 51477), (37, 51504), (38, 51525),

Gene: Issa_76 Start: 51424, Stop: 51864, Start Num: 16
Candidate Starts for Issa_76:
(Start: 16 @51424 has 3 MA's), (20, 51457), (22, 51484), (25, 51508), (29, 51574), (30, 51580), (32, 51610), (36, 51691), (39, 51742), (40, 51778),

Gene: LucySwiss_83 Start: 51859, Stop: 52296, Start Num: 16
Candidate Starts for LucySwiss_83:
(1, 51715), (5, 51766), (9, 51805), (Start: 16 @51859 has 3 MA's), (Start: 18 @51871 has 1 MA's), (19, 51883), (20, 51892), (21, 51907), (22, 51919), (28, 51964), (29, 52006), (30, 52012), (31, 52030), (33, 52078), (35, 52108), (40, 52210),

Gene: Shepard_85 Start: 51808, Stop: 52239, Start Num: 17
Candidate Starts for Shepard_85:
(6, 51715), (7, 51718), (Start: 15 @51802 has 2 MA's), (Start: 17 @51808 has 1 MA's), (24, 51883), (32, 51988), (34, 52045), (35, 52054), (37, 52081), (38, 52102), (41, 52186),

Gene: Teacup_82 Start: 52502, Stop: 52942, Start Num: 16
Candidate Starts for Teacup_82:
(Start: 16 @52502 has 3 MA's), (Start: 18 @52514 has 1 MA's), (25, 52586), (29, 52652), (30, 52658), (32, 52688), (36, 52769), (37, 52781), (39, 52820), (40, 52856),

Gene: Tokki_91 Start: 52159, Stop: 52596, Start Num: 15
Candidate Starts for Tokki_91:
(8, 52090), (10, 52126), (Start: 15 @52159 has 2 MA's), (24, 52240), (32, 52345), (34, 52402), (35, 52411), (37, 52438), (38, 52459), (41, 52543),

Gene: Westerlin_80 Start: 53236, Stop: 53625, Start Num: 21
Candidate Starts for Westerlin_80:
(2, 53065), (5, 53095), (9, 53134), (Start: 16 @53188 has 3 MA's), (Start: 18 @53200 has 1 MA's), (19, 53212), (20, 53221), (21, 53236), (22, 53248), (28, 53293), (29, 53335), (30, 53341), (31, 53359), (33, 53407), (35, 53437), (40, 53539),