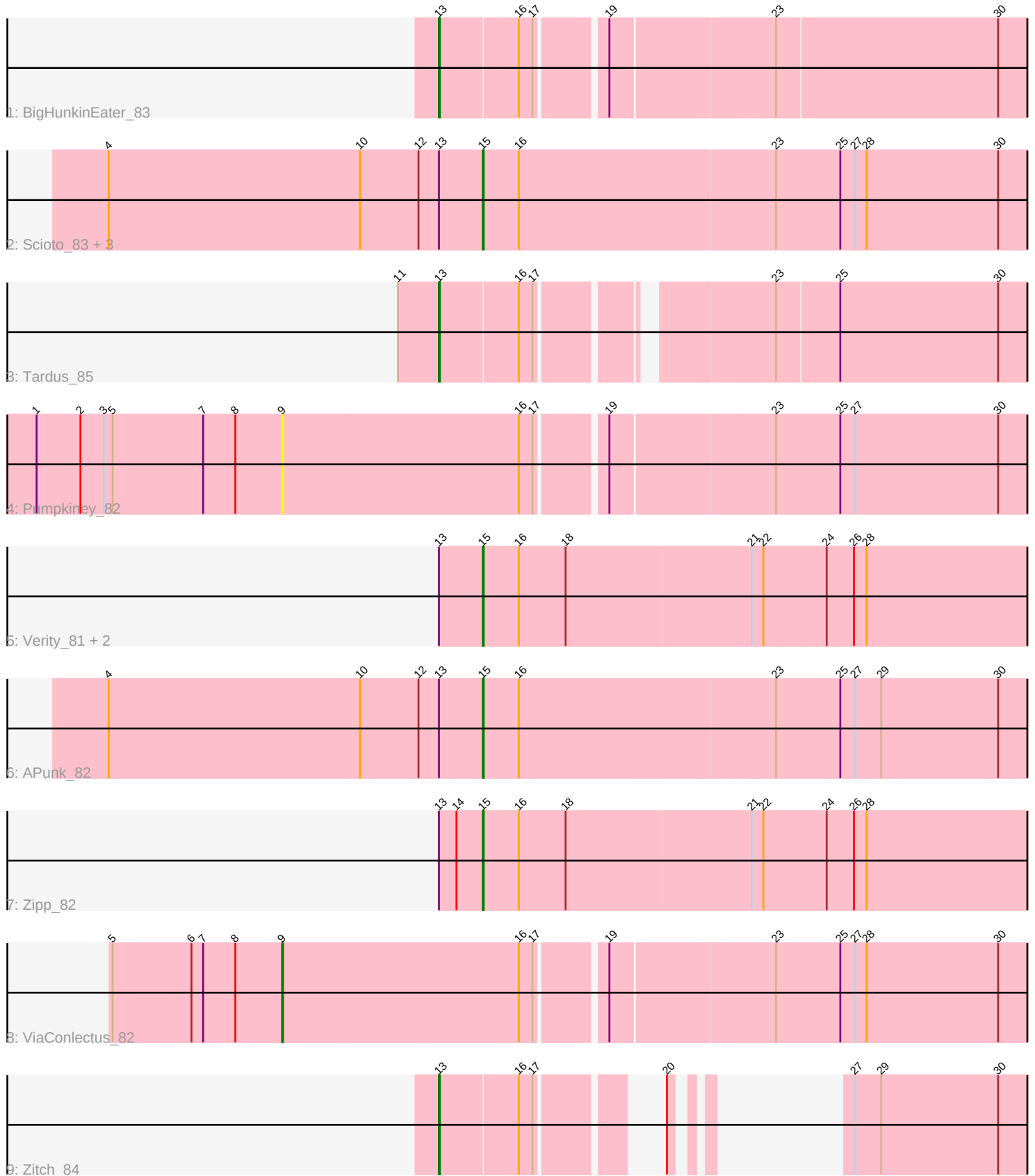


Pham 312150



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 312150 Report

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

Pham number 312150 has 14 members, 1 are drafts.

Phages represented in each track:

- Track 1 : BigHunkinEater_83
- Track 2 : Scioto_83, Sampson_84, Abblin_82, Natkenzie_82
- Track 3 : Tardus_85
- Track 4 : Pumpkiney_82
- Track 5 : Verity_81, DoctorFroggo_82, Delrey21_82
- Track 6 : APunk_82
- Track 7 : Zipp_82
- Track 8 : ViaConlectus_82
- Track 9 : Zitch_84

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

The start number called the most often in the published annotations is 15, it was called in 9 of the 13 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- APunk_82, Abblin_82, Delrey21_82, DoctorFroggo_82, Natkenzie_82, Sampson_84, Scioto_83, Verity_81, Zipp_82,

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

-

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

- BigHunkinEater_83, Pumpkiney_82, Tardus_85, ViaConlectus_82, Zitch_84,

Summary by start number:

Start 9:

- Found in 2 of 14 (14.3%) of genes in pham
- Manual Annotations of this start: 1 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pumpkiney_82 (DE4), ViaConlectus_82 (DE4),

Start 13:

- Found in 12 of 14 (85.7%) of genes in pham
- Manual Annotations of this start: 3 of 13
- Called 25.0% of time when present
- Phage (with cluster) where this start called: BigHunkinEater_83 (DE4), Tardus_85 (DE4), Zitch_84 (DE4),

Start 15:

- Found in 9 of 14 (64.3%) of genes in pham
- Manual Annotations of this start: 9 of 13
- Called 100.0% of time when present
- Phage (with cluster) where this start called: APunk_82 (DE4), Abblin_82 (DE4), Delrey21_82 (DE4), DoctorFroggo_82 (DE4), Natkenzie_82 (DE4), Sampson_84 (DE4), Scioto_83 (DE4), Verity_81 (DE4), Zipp_82 (DE4),

Summary by clusters:

There is one cluster represented in this pham: DE4

Info for manual annotations of cluster DE4:

- Start number 9 was manually annotated 1 time for cluster DE4.
- Start number 13 was manually annotated 3 times for cluster DE4.
- Start number 15 was manually annotated 9 times for cluster DE4.

Gene Information:

Gene: APunk_82 Start: 56552, Stop: 57142, Start Num: 15

Candidate Starts for APunk_82:

(4, 56168), (10, 56426), (12, 56486), (Start: 13 @56507 has 3 MA's), (Start: 15 @56552 has 9 MA's), (16, 56588), (23, 56846), (25, 56912), (27, 56927), (29, 56954), (30, 57074),

Gene: Abblin_82 Start: 56710, Stop: 57300, Start Num: 15

Candidate Starts for Abblin_82:

(4, 56326), (10, 56584), (12, 56644), (Start: 13 @56665 has 3 MA's), (Start: 15 @56710 has 9 MA's), (16, 56746), (23, 57004), (25, 57070), (27, 57085), (28, 57097), (30, 57232),

Gene: BigHunkinEater_83 Start: 56162, Stop: 56770, Start Num: 13

Candidate Starts for BigHunkinEater_83:

(Start: 13 @56162 has 3 MA's), (16, 56240), (17, 56252), (19, 56315), (23, 56477), (30, 56702),

Gene: Delrey21_82 Start: 58100, Stop: 58690, Start Num: 15

Candidate Starts for Delrey21_82:

(Start: 13 @58055 has 3 MA's), (Start: 15 @58100 has 9 MA's), (16, 58136), (18, 58184), (21, 58373), (22, 58385), (24, 58448), (26, 58475), (28, 58487),

Gene: DoctorFroggo_82 Start: 58100, Stop: 58690, Start Num: 15

Candidate Starts for DoctorFroggo_82:

(Start: 13 @58055 has 3 MA's), (Start: 15 @58100 has 9 MA's), (16, 58136), (18, 58184), (21, 58373), (22, 58385), (24, 58448), (26, 58475), (28, 58487),

Gene: Natkenzie_82 Start: 56710, Stop: 57300, Start Num: 15

Candidate Starts for Natkenzie_82:

(4, 56326), (10, 56584), (12, 56644), (Start: 13 @56665 has 3 MA's), (Start: 15 @56710 has 9 MA's), (16, 56746), (23, 57004), (25, 57070), (27, 57085), (28, 57097), (30, 57232),

Gene: Pumpkiney_82 Start: 55125, Stop: 55898, Start Num: 9

Candidate Starts for Pumpkiney_82:

(1, 54873), (2, 54918), (3, 54942), (5, 54951), (7, 55044), (8, 55077), (Start: 9 @55125 has 1 MA's), (16, 55365), (17, 55377), (19, 55440), (23, 55602), (25, 55668), (27, 55683), (30, 55830),

Gene: Sampson_84 Start: 56861, Stop: 57451, Start Num: 15

Candidate Starts for Sampson_84:

(4, 56477), (10, 56735), (12, 56795), (Start: 13 @56816 has 3 MA's), (Start: 15 @56861 has 9 MA's), (16, 56897), (23, 57155), (25, 57221), (27, 57236), (28, 57248), (30, 57383),

Gene: Scioto_83 Start: 56711, Stop: 57301, Start Num: 15

Candidate Starts for Scioto_83:

(4, 56327), (10, 56585), (12, 56645), (Start: 13 @56666 has 3 MA's), (Start: 15 @56711 has 9 MA's), (16, 56747), (23, 57005), (25, 57071), (27, 57086), (28, 57098), (30, 57233),

Gene: Tardus_85 Start: 57409, Stop: 57996, Start Num: 13

Candidate Starts for Tardus_85:

(11, 57367), (Start: 13 @57409 has 3 MA's), (16, 57487), (17, 57499), (23, 57703), (25, 57766), (30, 57928),

Gene: Verity_81 Start: 57962, Stop: 58552, Start Num: 15

Candidate Starts for Verity_81:

(Start: 13 @57917 has 3 MA's), (Start: 15 @57962 has 9 MA's), (16, 57998), (18, 58046), (21, 58235), (22, 58247), (24, 58310), (26, 58337), (28, 58349),

Gene: ViaConlectus_82 Start: 55623, Stop: 56396, Start Num: 9

Candidate Starts for ViaConlectus_82:

(5, 55449), (6, 55530), (7, 55542), (8, 55575), (Start: 9 @55623 has 1 MA's), (16, 55863), (17, 55875), (19, 55938), (23, 56100), (25, 56166), (27, 56181), (28, 56193), (30, 56328),

Gene: Zipp_82 Start: 57843, Stop: 58433, Start Num: 15

Candidate Starts for Zipp_82:

(Start: 13 @57798 has 3 MA's), (14, 57816), (Start: 15 @57843 has 9 MA's), (16, 57879), (18, 57927), (21, 58116), (22, 58128), (24, 58191), (26, 58218), (28, 58230),

Gene: Zitch_84 Start: 56344, Stop: 56766, Start Num: 13

Candidate Starts for Zitch_84:

(Start: 13 @56344 has 3 MA's), (16, 56422), (17, 56434), (20, 56515), (27, 56551), (29, 56578), (30, 56698),