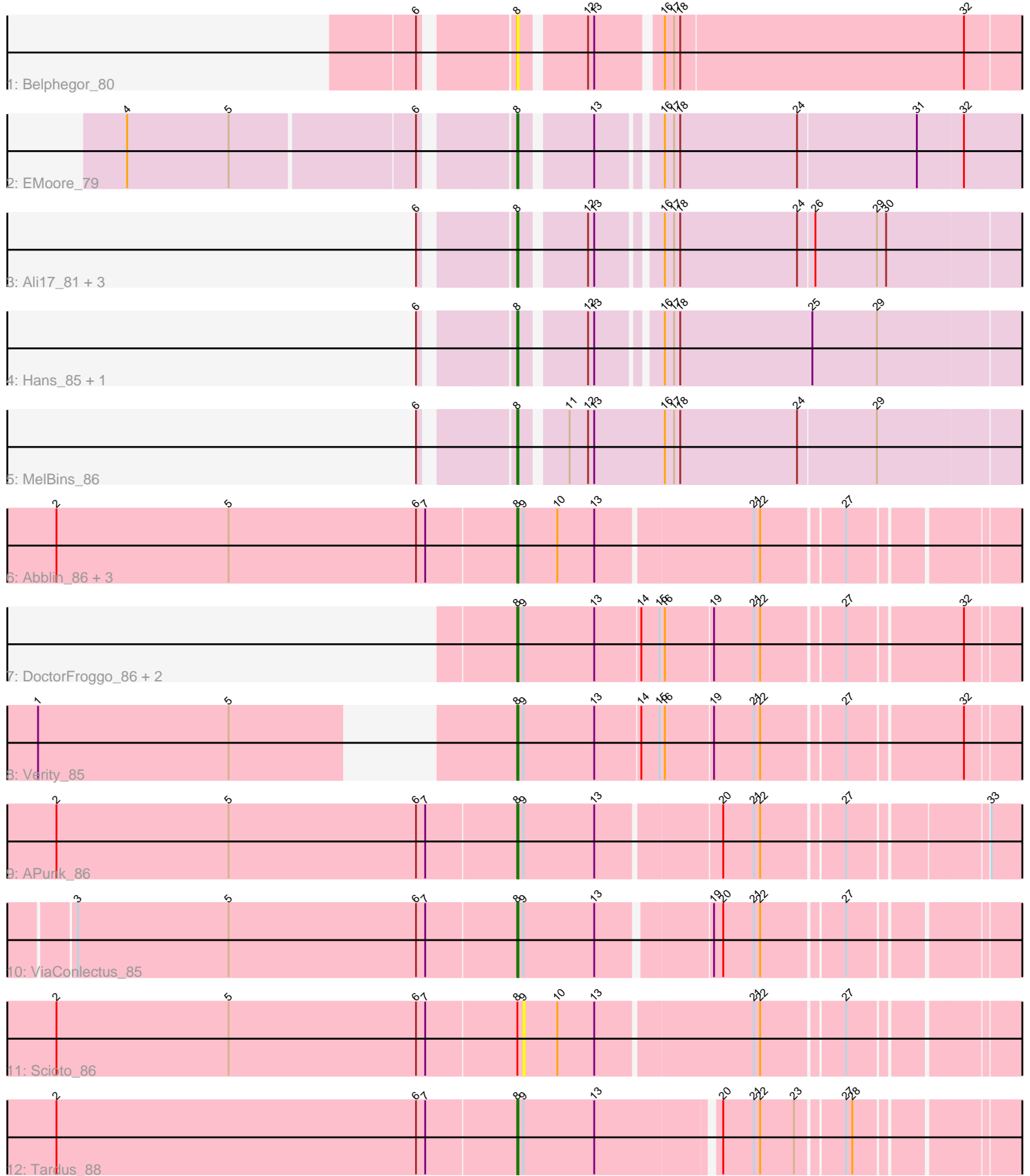


Pham 86869



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 86869 Report

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

Pham number 86869 has 21 members, 5 are drafts.

Phages represented in each track:

- Track 1 : Belphegor_80
- Track 2 : EMoore_79
- Track 3 : Ali17_81, Inspectinfecti_85, Phinally_84, Leonard_84
- Track 4 : Hans_85, Phauci_76
- Track 5 : MelBins_86
- Track 6 : Abblin_86, Zitch_88, Natkenzie_86, Sampson_88
- Track 7 : DoctorFroggo_86, Delrey21_86, Zipp_86
- Track 8 : Verity_85
- Track 9 : APunk_86
- Track 10 : ViaConlectus_85
- Track 11 : Scioto_86
- Track 12 : Tardus_88

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

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

Genes that call this "Most Annotated" start:

- APunk_86, Abblin_86, Ali17_81, Belphegor_80, Delrey21_86, DoctorFroggo_86, EMoore_79, Hans_85, Inspectinfecti_85, Leonard_84, MelBins_86, Natkenzie_86, Phauci_76, Phinally_84, Sampson_88, Tardus_88, Verity_85, ViaConlectus_85, Zipp_86, Zitch_88,

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

- Scioto_86,

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

-

Summary by start number:

Start 8:

- Found in 21 of 21 (100.0%) of genes in pham

- Manual Annotations of this start: 16 of 16
- Called 95.2% of time when present
- Phage (with cluster) where this start called: APunk_86 (DE4), Abblin_86 (DE4), Ali17_81 (DE2), Belphegor_80 (DE), Delrey21_86 (DE4), DoctorFroggo_86 (DE4), EMOore_79 (DE2), Hans_85 (DE2), Inspectinfecti_85 (DE2), Leonard_84 (DE2), MelBins_86 (DE2), Natkenzie_86 (DE4), Phauci_76 (DE2), Phinally_84 (DE2), Sampson_88 (DE4), Tardus_88 (DE4), Verity_85 (DE4), ViaConlectus_85 (DE4), Zipp_86 (DE4), Zitch_88 (DE4),

Start 9:

- Found in 12 of 21 (57.1%) of genes in pham
- No Manual Annotations of this start.
- Called 8.3% of time when present
- Phage (with cluster) where this start called: Scioto_86 (DE4),

Summary by clusters:

There are 3 clusters represented in this pham: DE2, DE, DE4,

Info for manual annotations of cluster DE2:

- Start number 8 was manually annotated 7 times for cluster DE2.

Info for manual annotations of cluster DE4:

- Start number 8 was manually annotated 9 times for cluster DE4.

Gene Information:

Gene: APunk_86 Start: 58036, Stop: 58491, Start Num: 8

Candidate Starts for APunk_86:

(2, 57589), (5, 57757), (6, 57940), (7, 57949), (Start: 8 @58036 has 16 MA's), (9, 58042), (13, 58111), (20, 58225), (21, 58255), (22, 58261), (27, 58336), (33, 58459),

Gene: Abblin_86 Start: 58194, Stop: 58649, Start Num: 8

Candidate Starts for Abblin_86:

(2, 57747), (5, 57915), (6, 58098), (7, 58107), (Start: 8 @58194 has 16 MA's), (9, 58200), (10, 58233), (13, 58269), (21, 58416), (22, 58422), (27, 58497),

Gene: Ali17_81 Start: 56544, Stop: 57002, Start Num: 8

Candidate Starts for Ali17_81:

(6, 56466), (Start: 8 @56544 has 16 MA's), (12, 56601), (13, 56607), (16, 56661), (17, 56670), (18, 56676), (24, 56790), (26, 56805), (29, 56865), (30, 56874),

Gene: Belphegor_80 Start: 58209, Stop: 58673, Start Num: 8

Candidate Starts for Belphegor_80:

(6, 58131), (Start: 8 @58209 has 16 MA's), (12, 58266), (13, 58272), (16, 58329), (17, 58338), (18, 58344), (32, 58617),

Gene: Delrey21_86 Start: 59605, Stop: 60066, Start Num: 8

Candidate Starts for Delrey21_86:

(Start: 8 @59605 has 16 MA's), (9, 59611), (13, 59680), (14, 59722), (15, 59740), (16, 59743), (19, 59788), (21, 59827), (22, 59833), (27, 59908), (32, 60013),

Gene: DoctorFroggo_86 Start: 59605, Stop: 60066, Start Num: 8

Candidate Starts for DoctorFroggo_86:

(Start: 8 @59605 has 16 MA's), (9, 59611), (13, 59680), (14, 59722), (15, 59740), (16, 59743), (19, 59788), (21, 59827), (22, 59833), (27, 59908), (32, 60013),

Gene: EMoore_79 Start: 57100, Stop: 57561, Start Num: 8

Candidate Starts for EMoore_79:

(4, 56749), (5, 56848), (6, 57022), (Start: 8 @57100 has 16 MA's), (13, 57163), (16, 57217), (17, 57226), (18, 57232), (24, 57346), (31, 57460), (32, 57502),

Gene: Hans_85 Start: 57468, Stop: 57929, Start Num: 8

Candidate Starts for Hans_85:

(6, 57390), (Start: 8 @57468 has 16 MA's), (12, 57525), (13, 57531), (16, 57585), (17, 57594), (18, 57600), (25, 57729), (29, 57792),

Gene: Inspectinfecti_85 Start: 57448, Stop: 57906, Start Num: 8

Candidate Starts for Inspectinfecti_85:

(6, 57370), (Start: 8 @57448 has 16 MA's), (12, 57505), (13, 57511), (16, 57565), (17, 57574), (18, 57580), (24, 57694), (26, 57709), (29, 57769), (30, 57778),

Gene: Leonard_84 Start: 57511, Stop: 57969, Start Num: 8

Candidate Starts for Leonard_84:

(6, 57433), (Start: 8 @57511 has 16 MA's), (12, 57568), (13, 57574), (16, 57628), (17, 57637), (18, 57643), (24, 57757), (26, 57772), (29, 57832), (30, 57841),

Gene: MelBins_86 Start: 57903, Stop: 58376, Start Num: 8

Candidate Starts for MelBins_86:

(6, 57825), (Start: 8 @57903 has 16 MA's), (11, 57942), (12, 57960), (13, 57966), (16, 58035), (17, 58044), (18, 58050), (24, 58164), (29, 58239),

Gene: Natkenzie_86 Start: 58194, Stop: 58649, Start Num: 8

Candidate Starts for Natkenzie_86:

(2, 57747), (5, 57915), (6, 58098), (7, 58107), (Start: 8 @58194 has 16 MA's), (9, 58200), (10, 58233), (13, 58269), (21, 58416), (22, 58422), (27, 58497),

Gene: Phauci_76 Start: 54545, Stop: 55006, Start Num: 8

Candidate Starts for Phauci_76:

(6, 54467), (Start: 8 @54545 has 16 MA's), (12, 54602), (13, 54608), (16, 54662), (17, 54671), (18, 54677), (25, 54806), (29, 54869),

Gene: Phinally_84 Start: 57508, Stop: 57966, Start Num: 8

Candidate Starts for Phinally_84:

(6, 57430), (Start: 8 @57508 has 16 MA's), (12, 57565), (13, 57571), (16, 57625), (17, 57634), (18, 57640), (24, 57754), (26, 57769), (29, 57829), (30, 57838),

Gene: Sampson_88 Start: 58345, Stop: 58800, Start Num: 8

Candidate Starts for Sampson_88:

(2, 57898), (5, 58066), (6, 58249), (7, 58258), (Start: 8 @58345 has 16 MA's), (9, 58351), (10, 58384), (13, 58420), (21, 58567), (22, 58573), (27, 58648),

Gene: Scioto_86 Start: 58201, Stop: 58650, Start Num: 9

Candidate Starts for Scioto_86:

(2, 57748), (5, 57916), (6, 58099), (7, 58108), (Start: 8 @58195 has 16 MA's), (9, 58201), (10, 58234), (13, 58270), (21, 58417), (22, 58423), (27, 58498),

Gene: Tardus_88 Start: 58687, Stop: 59136, Start Num: 8

Candidate Starts for Tardus_88:

(2, 58240), (6, 58591), (7, 58600), (Start: 8 @58687 has 16 MA's), (9, 58693), (13, 58762), (20, 58873), (21, 58903), (22, 58909), (23, 58942), (27, 58984), (28, 58990),

Gene: Verity_85 Start: 59377, Stop: 59838, Start Num: 8

Candidate Starts for Verity_85:

(1, 59002), (5, 59188), (Start: 8 @59377 has 16 MA's), (9, 59383), (13, 59452), (14, 59494), (15, 59512), (16, 59515), (19, 59560), (21, 59599), (22, 59605), (27, 59680), (32, 59785),

Gene: ViaConlectus_85 Start: 57033, Stop: 57482, Start Num: 8

Candidate Starts for ViaConlectus_85:

(3, 56607), (5, 56754), (6, 56937), (7, 56946), (Start: 8 @57033 has 16 MA's), (9, 57039), (13, 57108), (19, 57210), (20, 57219), (21, 57249), (22, 57255), (27, 57330),

Gene: Zipp_86 Start: 59348, Stop: 59809, Start Num: 8

Candidate Starts for Zipp_86:

(Start: 8 @59348 has 16 MA's), (9, 59354), (13, 59423), (14, 59465), (15, 59483), (16, 59486), (19, 59531), (21, 59570), (22, 59576), (27, 59651), (32, 59756),

Gene: Zitch_88 Start: 57660, Stop: 58121, Start Num: 8

Candidate Starts for Zitch_88:

(2, 57213), (5, 57381), (6, 57564), (7, 57573), (Start: 8 @57660 has 16 MA's), (9, 57666), (10, 57699), (13, 57735), (21, 57882), (22, 57888), (27, 57963),