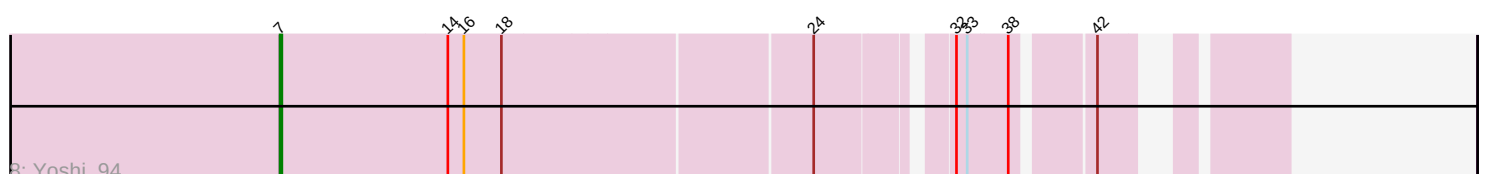
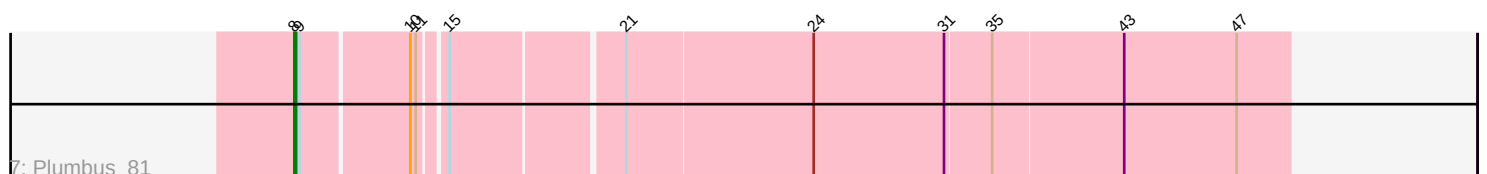
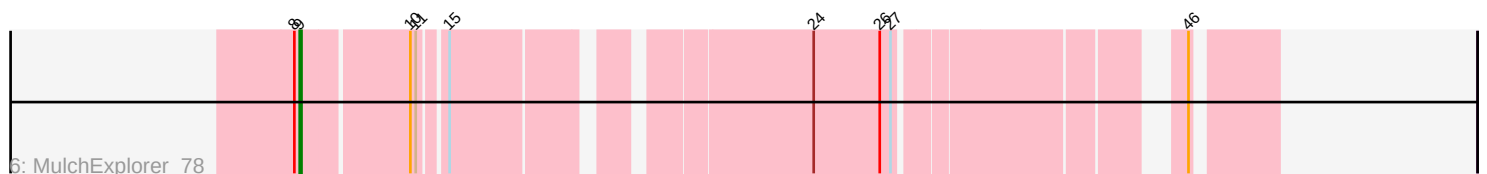
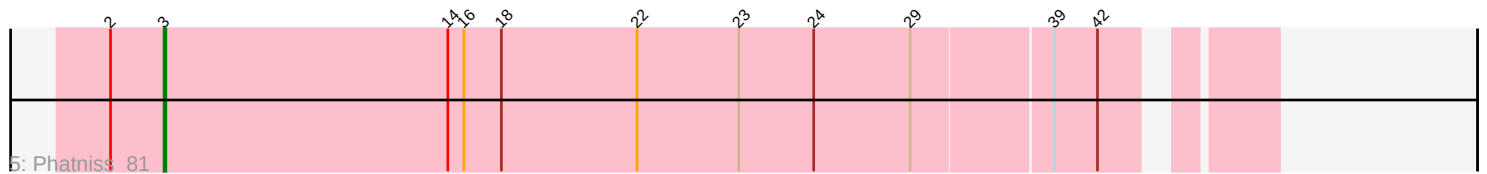
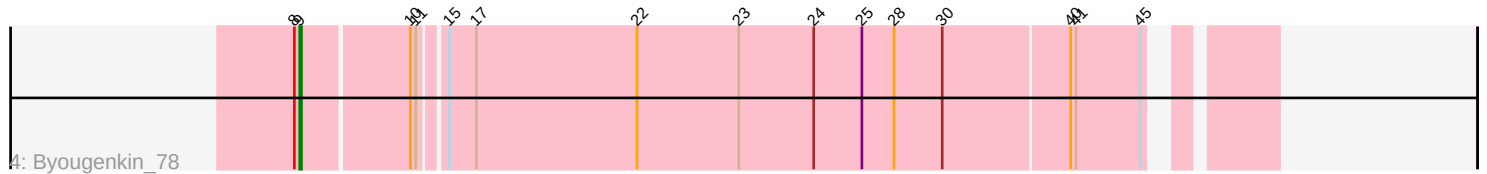
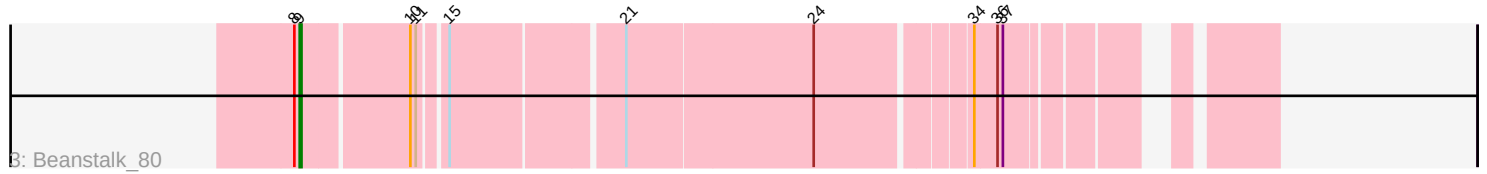
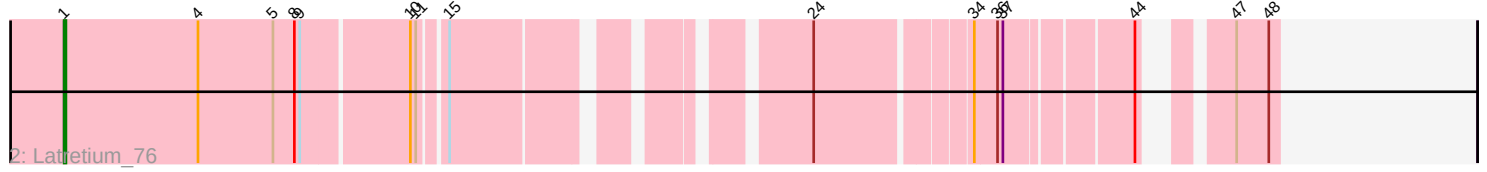
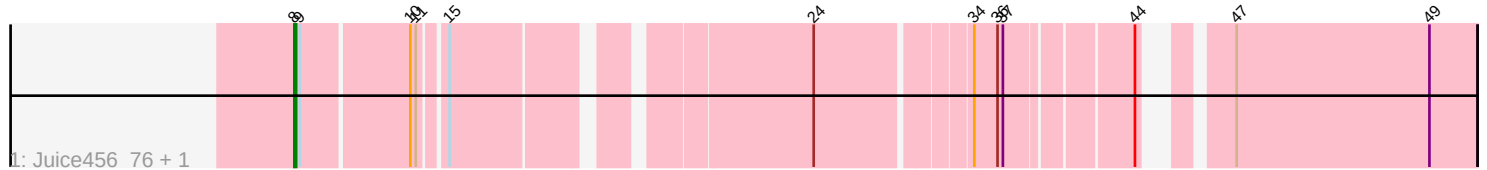


Pham 331488



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 331488 Report

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

Pham number 331488 has 10 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Juice456_76, QuickMath_78
- Track 2 : Latretium_76
- Track 3 : Beanstalk_80
- Track 4 : Byougenkin_78
- Track 5 : Phatniss_81
- Track 6 : MulchExplorer_78
- Track 7 : Plumbus_81
- Track 8 : Yoshi_94
- Track 9 : Omega_81

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 3 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Juice456_76, Plumbus_81, QuickMath_78,

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

- Beanstalk_80, Byougenkin_78, Latretium_76, MulchExplorer_78,

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

- Omega_81, Phatniss_81, Yoshi_94,

Summary by start number:

Start 1:

- Found in 1 of 10 (10.0%) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Latretium_76 (F1),

Start 3:

- Found in 1 of 10 (10.0%) of genes in pham

- Manual Annotations of this start: 1 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Phatniss_81 (F1),

Start 6:

- Found in 1 of 10 (10.0%) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Omega_81 (J),

Start 7:

- Found in 1 of 10 (10.0%) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Yoshi_94 (F2),

Start 8:

- Found in 7 of 10 (70.0%) of genes in pham
- Manual Annotations of this start: 3 of 10
- Called 42.9% of time when present
- Phage (with cluster) where this start called: Juice456_76 (F1), Plumbus_81 (F1), QuickMath_78 (F1),

Start 9:

- Found in 7 of 10 (70.0%) of genes in pham
- Manual Annotations of this start: 3 of 10
- Called 42.9% of time when present
- Phage (with cluster) where this start called: Beanstalk_80 (F1), Byougenkin_78 (F1), MulchExplorer_78 (F1),

Summary by clusters:

There are 3 clusters represented in this pham: F1, F2, J,

Info for manual annotations of cluster F1:

- Start number 1 was manually annotated 1 time for cluster F1.
- Start number 3 was manually annotated 1 time for cluster F1.
- Start number 8 was manually annotated 3 times for cluster F1.
- Start number 9 was manually annotated 3 times for cluster F1.

Info for manual annotations of cluster F2:

- Start number 7 was manually annotated 1 time for cluster F2.

Info for manual annotations of cluster J:

- Start number 6 was manually annotated 1 time for cluster J.

Gene Information:

Gene: Beanstalk_80 Start: 47844, Stop: 48317, Start Num: 9

Candidate Starts for Beanstalk_80:

(Start: 8 @47841 has 3 MA's), (Start: 9 @47844 has 3 MA's), (10, 47901), (11, 47904), (15, 47916), (21, 48006), (24, 48108), (34, 48186), (36, 48198), (37, 48201),

Gene: Byougenkin_78 Start: 46058, Stop: 46567, Start Num: 9

Candidate Starts for Byougenkin_78:

(Start: 8 @46055 has 3 MA's), (Start: 9 @46058 has 3 MA's), (10, 46115), (11, 46118), (15, 46130), (17, 46145), (22, 46235), (23, 46292), (24, 46334), (25, 46361), (28, 46379), (30, 46406), (40, 46475), (41, 46478), (45, 46514),

Gene: Juice456_76 Start: 47271, Stop: 47840, Start Num: 8

Candidate Starts for Juice456_76:

(Start: 8 @47271 has 3 MA's), (Start: 9 @47274 has 3 MA's), (10, 47331), (11, 47334), (15, 47346), (24, 47520), (34, 47598), (36, 47610), (37, 47613), (44, 47676), (47, 47706), (49, 47814),

Gene: Latretium_76 Start: 46342, Stop: 46914, Start Num: 1

Candidate Starts for Latretium_76:

(Start: 1 @46342 has 1 MA's), (4, 46417), (5, 46459), (Start: 8 @46471 has 3 MA's), (Start: 9 @46474 has 3 MA's), (10, 46531), (11, 46534), (15, 46546), (24, 46705), (34, 46783), (36, 46795), (37, 46798), (44, 46861), (47, 46891), (48, 46909),

Gene: MulchExplorer_78 Start: 47402, Stop: 47863, Start Num: 9

Candidate Starts for MulchExplorer_78:

(Start: 8 @47399 has 3 MA's), (Start: 9 @47402 has 3 MA's), (10, 47459), (11, 47462), (15, 47474), (24, 47648), (26, 47684), (27, 47690), (46, 47822),

Gene: Omega_81 Start: 52384, Stop: 51857, Start Num: 6

Candidate Starts for Omega_81:

(Start: 6 @52384 has 1 MA's), (12, 52312), (13, 52309), (19, 52243), (20, 52231), (24, 52111), (31, 52039), (35, 52015), (43, 51943),

Gene: Phatniss_81 Start: 48507, Stop: 49100, Start Num: 3

Candidate Starts for Phatniss_81:

(2, 48477), (Start: 3 @48507 has 1 MA's), (14, 48666), (16, 48675), (18, 48696), (22, 48771), (23, 48828), (24, 48870), (29, 48924), (39, 48999), (42, 49023),

Gene: Plumbus_81 Start: 45998, Stop: 46525, Start Num: 8

Candidate Starts for Plumbus_81:

(Start: 8 @45998 has 3 MA's), (Start: 9 @46001 has 3 MA's), (10, 46058), (11, 46061), (15, 46073), (21, 46163), (24, 46265), (31, 46337), (35, 46361), (43, 46433), (47, 46496),

Gene: QuickMath_78 Start: 47623, Stop: 48192, Start Num: 8

Candidate Starts for QuickMath_78:

(Start: 8 @47623 has 3 MA's), (Start: 9 @47626 has 3 MA's), (10, 47683), (11, 47686), (15, 47698), (24, 47872), (34, 47950), (36, 47962), (37, 47965), (44, 48028), (47, 48058), (49, 48166),

Gene: Yoshi_94 Start: 49980, Stop: 50474, Start Num: 7

Candidate Starts for Yoshi_94:

(Start: 7 @49980 has 1 MA's), (14, 50073), (16, 50082), (18, 50103), (24, 50268), (32, 50331), (33, 50337), (38, 50358), (42, 50397),