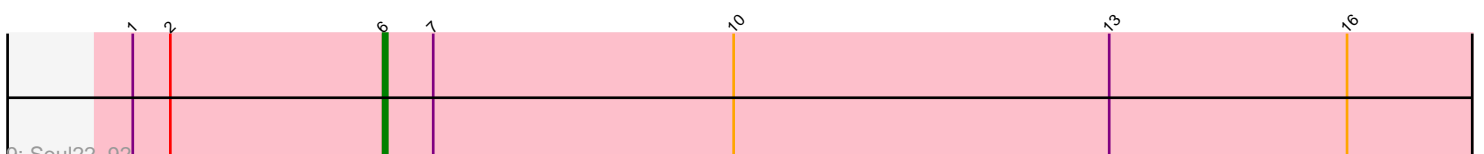
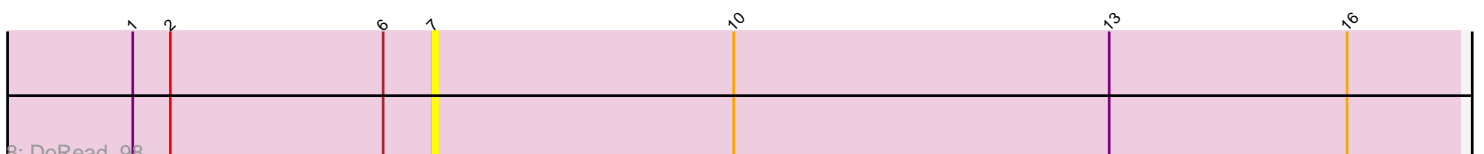
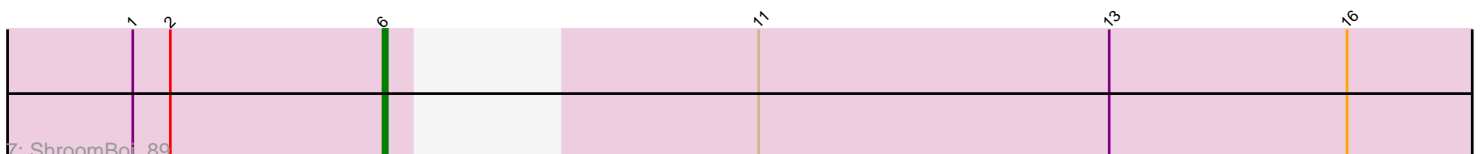
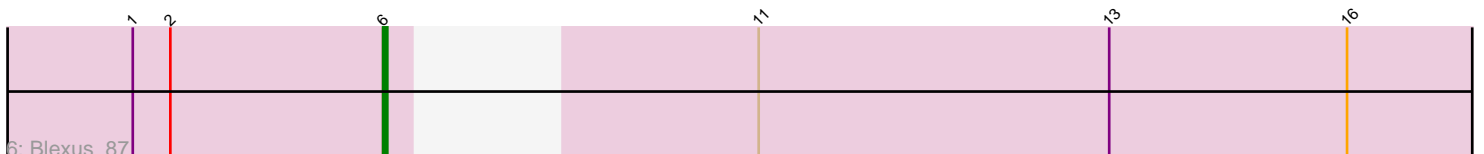
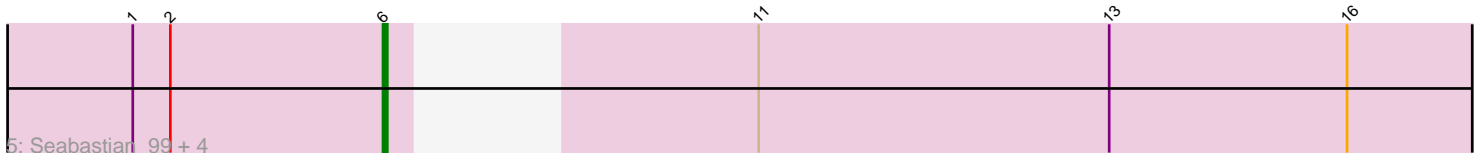
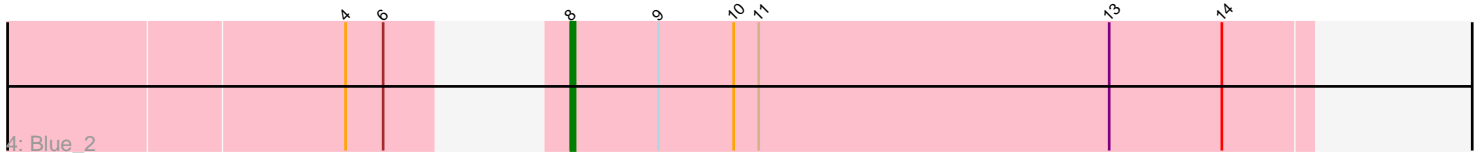
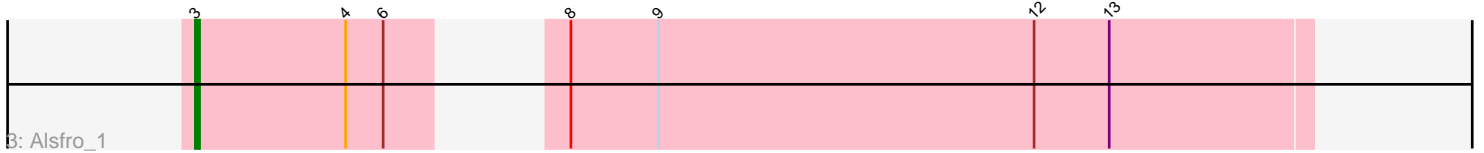
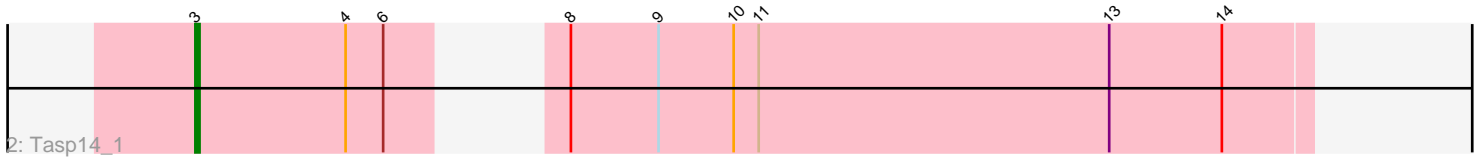
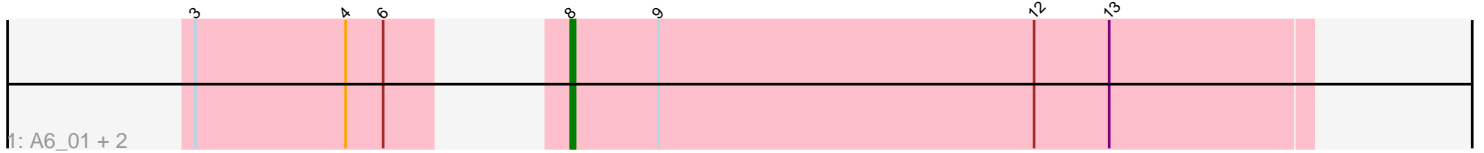


Pham 203371



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 203371 Report

This analysis was run 01/18/25 on database version 583.

Pham number 203371 has 17 members, 1 are drafts.

Phages represented in each track:

- Track 1 : A6_01, Carlyle_1, BK1_01
- Track 2 : Tasp14_1
- Track 3 : Alsfro_1
- Track 4 : Blue_2
- Track 5 : Sebastian_99, AlpineSix_90, Jinglebell_98, Modragons_96, OfUltron_99
- Track 6 : Blexus_87
- Track 7 : ShroomBoi_89
- Track 8 : DoRead_98
- Track 9 : Soul22_92
- Track 10 : Nebkiss_116, Gaia_115

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

The start number called the most often in the published annotations is 6, it was called in 8 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AlpineSix_90, Blexus_87, Jinglebell_98, Modragons_96, OfUltron_99, Sebastian_99, ShroomBoi_89, Soul22_92,

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

- A6_01, Alsfro_1, BK1_01, Blue_2, Carlyle_1, DoRead_98, Tasp14_1,

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

- Gaia_115, Nebkiss_116,

Summary by start number:

Start 3:

- Found in 5 of 17 (29.4%) of genes in pham
- Manual Annotations of this start: 2 of 16
- Called 40.0% of time when present
- Phage (with cluster) where this start called: Alsfro_1 (A1), Tasp14_1 (A1),

Start 5:

- Found in 2 of 17 (11.8%) of genes in pham
- Manual Annotations of this start: 2 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gaia_115 (X), Nebkiss_116 (X),

Start 6:

- Found in 15 of 17 (88.2%) of genes in pham
- Manual Annotations of this start: 8 of 16
- Called 53.3% of time when present
- Phage (with cluster) where this start called: AlpineSix_90 (F1), Blexus_87 (F1), Jinglebell_98 (F1), Modragons_96 (F1), OfUltron_99 (F1), Sebastian_99 (F1), ShroomBoi_89 (F1), Soul22_92 (F2),

Start 7:

- Found in 2 of 17 (11.8%) of genes in pham
- No Manual Annotations of this start.
- Called 50.0% of time when present
- Phage (with cluster) where this start called: DoRead_98 (F1),

Start 8:

- Found in 6 of 17 (35.3%) of genes in pham
- Manual Annotations of this start: 4 of 16
- Called 66.7% of time when present
- Phage (with cluster) where this start called: A6_01 (A1), BK1_01 (A1), Blue_2 (A1), Carlyle_1 (A1),

Summary by clusters:

There are 4 clusters represented in this pham: A1, F1, F2, X,

Info for manual annotations of cluster A1:

- Start number 3 was manually annotated 2 times for cluster A1.
- Start number 8 was manually annotated 4 times for cluster A1.

Info for manual annotations of cluster F1:

- Start number 6 was manually annotated 7 times for cluster F1.

Info for manual annotations of cluster F2:

- Start number 6 was manually annotated 1 time for cluster F2.

Info for manual annotations of cluster X:

- Start number 5 was manually annotated 2 times for cluster X.

Gene Information:

Gene: A6_01 Start: 595, Stop: 771, Start Num: 8

Candidate Starts for A6_01:

(Start: 3 @532 has 2 MA's), (4, 568), (Start: 6 @577 has 8 MA's), (Start: 8 @595 has 4 MA's), (9, 616), (12, 706), (13, 724),

Gene: AlpineSix_90 Start: 50889, Stop: 51125, Start Num: 6

Candidate Starts for AlpineSix_90:

(1, 50829), (2, 50838), (Start: 6 @50889 has 8 MA's), (11, 50943), (13, 51027), (16, 51084),

Gene: Alsfro_1 Start: 542, Stop: 781, Start Num: 3

Candidate Starts for Alsfro_1:

(Start: 3 @542 has 2 MA's), (4, 578), (Start: 6 @587 has 8 MA's), (Start: 8 @605 has 4 MA's), (9, 626), (12, 716), (13, 734),

Gene: BK1_01 Start: 595, Stop: 771, Start Num: 8

Candidate Starts for BK1_01:

(Start: 3 @532 has 2 MA's), (4, 568), (Start: 6 @577 has 8 MA's), (Start: 8 @595 has 4 MA's), (9, 616), (12, 706), (13, 724),

Gene: Blexus_87 Start: 51299, Stop: 51529, Start Num: 6

Candidate Starts for Blexus_87:

(1, 51239), (2, 51248), (Start: 6 @51299 has 8 MA's), (11, 51353), (13, 51437), (16, 51494),

Gene: Blue_2 Start: 1059, Stop: 1235, Start Num: 8

Candidate Starts for Blue_2:

(4, 1032), (Start: 6 @1041 has 8 MA's), (Start: 8 @1059 has 4 MA's), (9, 1080), (10, 1098), (11, 1104), (13, 1188), (14, 1215),

Gene: Carlyle_1 Start: 605, Stop: 781, Start Num: 8

Candidate Starts for Carlyle_1:

(Start: 3 @542 has 2 MA's), (4, 578), (Start: 6 @587 has 8 MA's), (Start: 8 @605 has 4 MA's), (9, 626), (12, 716), (13, 734),

Gene: DoRead_98 Start: 50009, Stop: 50254, Start Num: 7

Candidate Starts for DoRead_98:

(1, 49937), (2, 49946), (Start: 6 @49997 has 8 MA's), (7, 50009), (10, 50081), (13, 50171), (16, 50228),

Gene: Gaia_115 Start: 65557, Stop: 65751, Start Num: 5

Candidate Starts for Gaia_115:

(Start: 5 @65557 has 2 MA's), (13, 65704), (15, 65737),

Gene: Jinglebell_98 Start: 52786, Stop: 53022, Start Num: 6

Candidate Starts for Jinglebell_98:

(1, 52726), (2, 52735), (Start: 6 @52786 has 8 MA's), (11, 52840), (13, 52924), (16, 52981),

Gene: Modragons_96 Start: 52630, Stop: 52866, Start Num: 6

Candidate Starts for Modragons_96:

(1, 52570), (2, 52579), (Start: 6 @52630 has 8 MA's), (11, 52684), (13, 52768), (16, 52825),

Gene: Nebkiss_116 Start: 64483, Stop: 64677, Start Num: 5

Candidate Starts for Nebkiss_116:

(Start: 5 @64483 has 2 MA's), (13, 64630), (15, 64663),

Gene: OfUltron_99 Start: 52786, Stop: 53022, Start Num: 6

Candidate Starts for OfUltron_99:

(1, 52726), (2, 52735), (Start: 6 @52786 has 8 MA's), (11, 52840), (13, 52924), (16, 52981),

Gene: Seabastian_99 Start: 52787, Stop: 53023, Start Num: 6

Candidate Starts for Seabastian_99:

(1, 52727), (2, 52736), (Start: 6 @52787 has 8 MA's), (11, 52841), (13, 52925), (16, 52982),

Gene: ShroomBoi_89 Start: 51000, Stop: 51233, Start Num: 6

Candidate Starts for ShroomBoi_89:

(1, 50940), (2, 50949), (Start: 6 @51000 has 8 MA's), (11, 51054), (13, 51138), (16, 51195),

Gene: Soul22_92 Start: 49297, Stop: 49563, Start Num: 6

Candidate Starts for Soul22_92:

(1, 49237), (2, 49246), (Start: 6 @49297 has 8 MA's), (7, 49309), (10, 49381), (13, 49471), (16, 49528),

Gene: Tasp14_1 Start: 534, Stop: 773, Start Num: 3

Candidate Starts for Tasp14_1:

(Start: 3 @534 has 2 MA's), (4, 570), (Start: 6 @579 has 8 MA's), (Start: 8 @597 has 4 MA's), (9, 618), (10, 636), (11, 642), (13, 726), (14, 753),