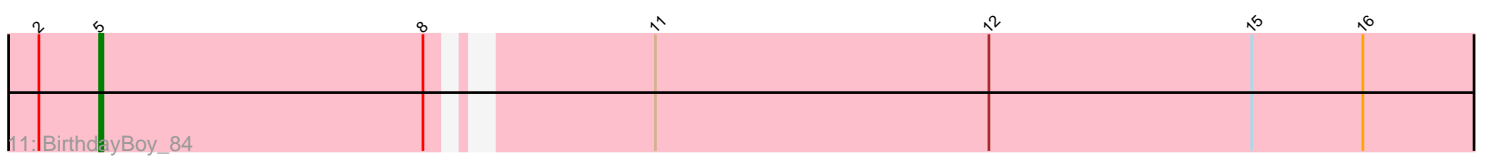
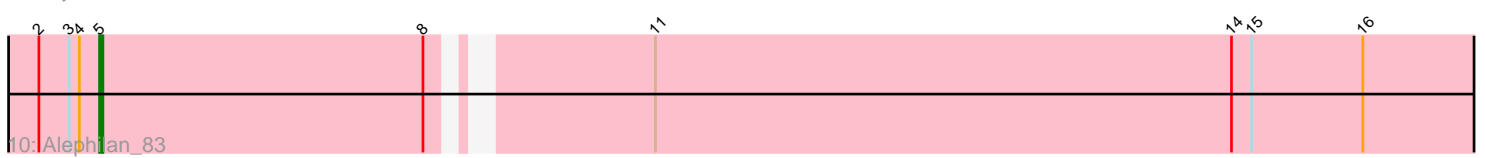
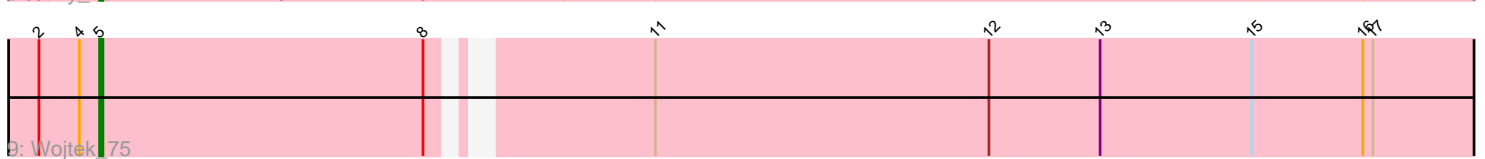
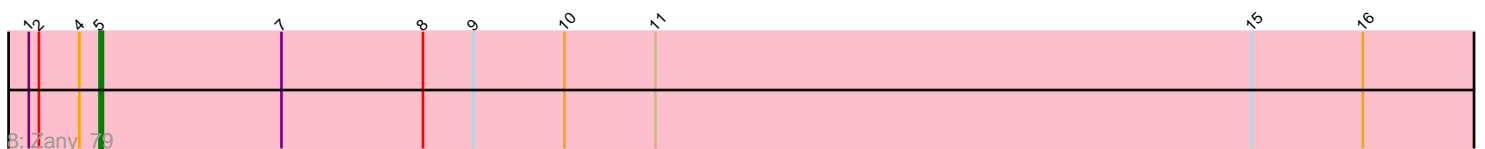
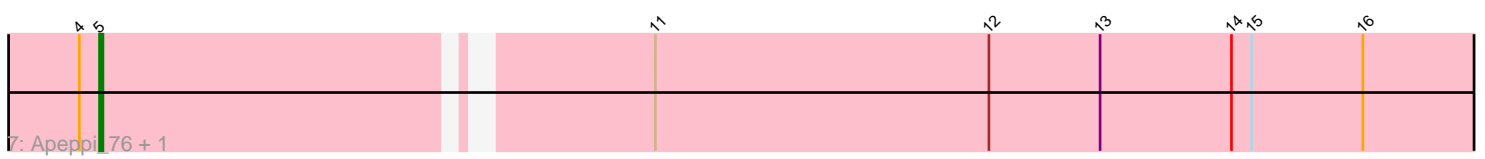
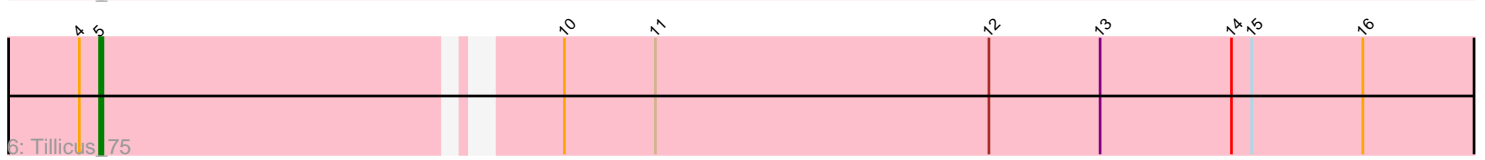
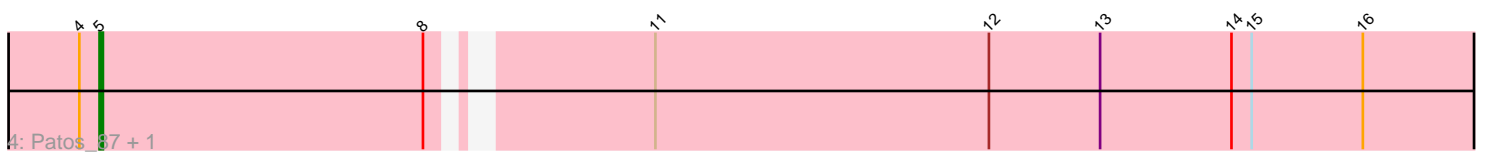
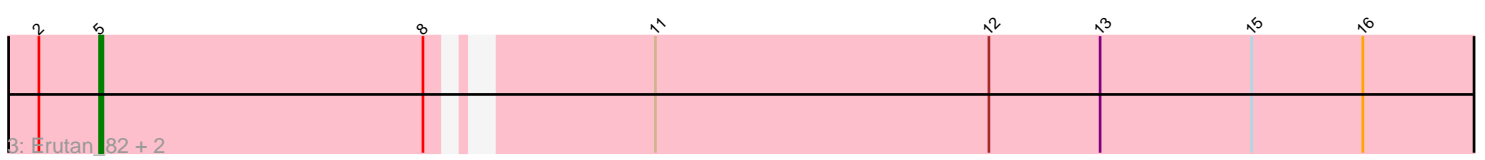
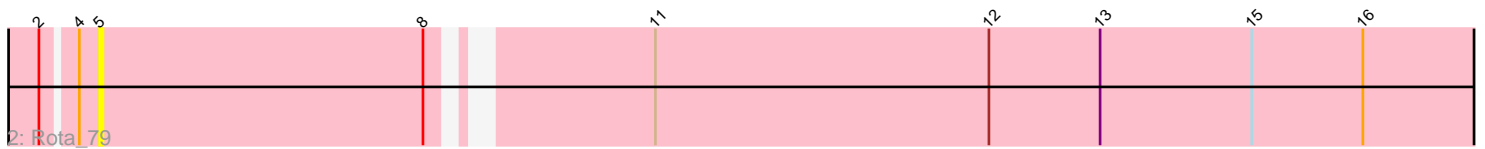
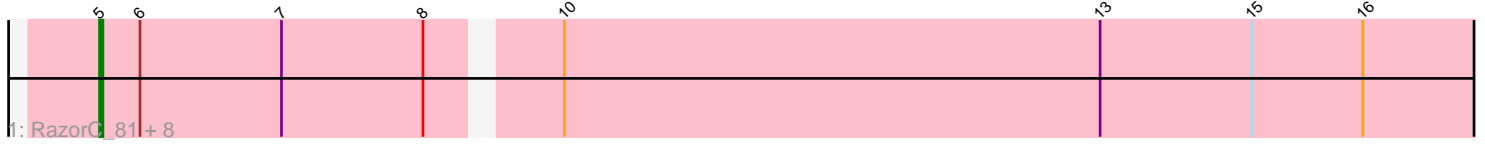


Pham 309235



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 309235 Report

This analysis was run 06/27/26 on database version 652.

Pham number 309235 has 23 members, 1 are drafts.

Phages represented in each track:

- Track 1 : RazorC_81, NovaSharks_83, Charminar_80, Riduram_80, Alyssamiracle_84, Astralis_81, Genamy16_84, Avian_79, Rumi_82
- Track 2 : Rota_79
- Track 3 : Erutan_82, Ranch_83, OtterstedtS21_82
- Track 4 : Patos_87, NorManre_87
- Track 5 : Lambo_80
- Track 6 : Tillicus_75
- Track 7 : Apeppi_76, LuckyLeo_78
- Track 8 : Zany_79
- Track 9 : Wojtek_75
- Track 10 : Alephilan_83
- Track 11 : BirthdayBoy_84

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

The start number called the most often in the published annotations is 5, it was called in 22 of the 22 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Alephilan_83, Alyssamiracle_84, Apeppi_76, Astralis_81, Avian_79, BirthdayBoy_84, Charminar_80, Erutan_82, Genamy16_84, Lambo_80, LuckyLeo_78, NorManre_87, NovaSharks_83, OtterstedtS21_82, Patos_87, Ranch_83, RazorC_81, Riduram_80, Rota_79, Rumi_82, Tillicus_75, Wojtek_75, Zany_79,

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

-

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

-

Summary by start number:

Start 5:

- Found in 23 of 23 (100.0%) of genes in pham
- Manual Annotations of this start: 22 of 22
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alephilan_83 (DV), Alyssamiracle_84 (DV), Apeppi_76 (DV), Astralis_81 (DV), Avian_79 (DV), BirthdayBoy_84 (DV), Charminar_80 (DV), Erutan_82 (DV), Genamy16_84 (DV), Lambo_80 (DV), LuckyLeo_78 (DV), NorManre_87 (DV), NovaSharks_83 (DV), OtterstedtS21_82 (DV), Patos_87 (DV), Ranch_83 (DV), RazorC_81 (DV), Riduram_80 (DV), Rota_79 (DV), Rumi_82 (DV), Tillicus_75 (DV), Wojtek_75 (DV), Zany_79 (DV),

Summary by clusters:

There is one cluster represented in this pham: DV

Info for manual annotations of cluster DV:

- Start number 5 was manually annotated 22 times for cluster DV.

Gene Information:

Gene: Alephilan_83 Start: 56728, Stop: 57138, Start Num: 5

Candidate Starts for Alephilan_83:

(2, 56710), (3, 56719), (4, 56722), (Start: 5 @56728 has 22 MA's), (8, 56824), (11, 56878), (14, 57049), (15, 57055), (16, 57088),

Gene: Alyssamiracle_84 Start: 54968, Stop: 55381, Start Num: 5

Candidate Starts for Alyssamiracle_84:

(Start: 5 @54968 has 22 MA's), (6, 54980), (7, 55022), (8, 55064), (10, 55097), (13, 55256), (15, 55301), (16, 55334),

Gene: Apeppi_76 Start: 55439, Stop: 55846, Start Num: 5

Candidate Starts for Apeppi_76:

(4, 55433), (Start: 5 @55439 has 22 MA's), (11, 55589), (12, 55688), (13, 55721), (14, 55760), (15, 55766), (16, 55799),

Gene: Astralis_81 Start: 54547, Stop: 54960, Start Num: 5

Candidate Starts for Astralis_81:

(Start: 5 @54547 has 22 MA's), (6, 54559), (7, 54601), (8, 54643), (10, 54676), (13, 54835), (15, 54880), (16, 54913),

Gene: Avian_79 Start: 54696, Stop: 55109, Start Num: 5

Candidate Starts for Avian_79:

(Start: 5 @54696 has 22 MA's), (6, 54708), (7, 54750), (8, 54792), (10, 54825), (13, 54984), (15, 55029), (16, 55062),

Gene: BirthdayBoy_84 Start: 56616, Stop: 57023, Start Num: 5

Candidate Starts for BirthdayBoy_84:

(2, 56598), (Start: 5 @56616 has 22 MA's), (8, 56712), (11, 56766), (12, 56865), (15, 56943), (16, 56976),

Gene: Charminar_80 Start: 54204, Stop: 54617, Start Num: 5

Candidate Starts for Charminar_80:

(Start: 5 @54204 has 22 MA's), (6, 54216), (7, 54258), (8, 54300), (10, 54333), (13, 54492), (15, 54537), (16, 54570),

Gene: Erutan_82 Start: 56201, Stop: 56608, Start Num: 5

Candidate Starts for Erutan_82:

(2, 56183), (Start: 5 @56201 has 22 MA's), (8, 56297), (11, 56351), (12, 56450), (13, 56483), (15, 56528), (16, 56561),

Gene: Genamy16_84 Start: 54954, Stop: 55367, Start Num: 5

Candidate Starts for Genamy16_84:

(Start: 5 @54954 has 22 MA's), (6, 54966), (7, 55008), (8, 55050), (10, 55083), (13, 55242), (15, 55287), (16, 55320),

Gene: Lambo_80 Start: 55766, Stop: 56188, Start Num: 5

Candidate Starts for Lambo_80:

(2, 55748), (4, 55760), (Start: 5 @55766 has 22 MA's), (7, 55820), (8, 55862), (9, 55877), (10, 55904), (13, 56063), (15, 56108), (16, 56141),

Gene: LuckyLeo_78 Start: 55439, Stop: 55846, Start Num: 5

Candidate Starts for LuckyLeo_78:

(4, 55433), (Start: 5 @55439 has 22 MA's), (11, 55589), (12, 55688), (13, 55721), (14, 55760), (15, 55766), (16, 55799),

Gene: NorManre_87 Start: 57491, Stop: 57898, Start Num: 5

Candidate Starts for NorManre_87:

(4, 57485), (Start: 5 @57491 has 22 MA's), (8, 57587), (11, 57641), (12, 57740), (13, 57773), (14, 57812), (15, 57818), (16, 57851),

Gene: NovaSharks_83 Start: 54657, Stop: 55070, Start Num: 5

Candidate Starts for NovaSharks_83:

(Start: 5 @54657 has 22 MA's), (6, 54669), (7, 54711), (8, 54753), (10, 54786), (13, 54945), (15, 54990), (16, 55023),

Gene: OtterstedtS21_82 Start: 56175, Stop: 56582, Start Num: 5

Candidate Starts for OtterstedtS21_82:

(2, 56157), (Start: 5 @56175 has 22 MA's), (8, 56271), (11, 56325), (12, 56424), (13, 56457), (15, 56502), (16, 56535),

Gene: Patos_87 Start: 57490, Stop: 57897, Start Num: 5

Candidate Starts for Patos_87:

(4, 57484), (Start: 5 @57490 has 22 MA's), (8, 57586), (11, 57640), (12, 57739), (13, 57772), (14, 57811), (15, 57817), (16, 57850),

Gene: Ranch_83 Start: 55262, Stop: 55669, Start Num: 5

Candidate Starts for Ranch_83:

(2, 55244), (Start: 5 @55262 has 22 MA's), (8, 55358), (11, 55412), (12, 55511), (13, 55544), (15, 55589), (16, 55622),

Gene: RazorC_81 Start: 54699, Stop: 55112, Start Num: 5

Candidate Starts for RazorC_81:

(Start: 5 @54699 has 22 MA's), (6, 54711), (7, 54753), (8, 54795), (10, 54828), (13, 54987), (15, 55032), (16, 55065),

Gene: Riduram_80 Start: 54274, Stop: 54687, Start Num: 5

Candidate Starts for Riduram_80:

(Start: 5 @54274 has 22 MA's), (6, 54286), (7, 54328), (8, 54370), (10, 54403), (13, 54562), (15, 54607), (16, 54640),

Gene: Rota_79 Start: 56292, Stop: 56699, Start Num: 5

Candidate Starts for Rota_79:

(2, 56277), (4, 56286), (Start: 5 @56292 has 22 MA's), (8, 56388), (11, 56442), (12, 56541), (13, 56574), (15, 56619), (16, 56652),

Gene: Rumi_82 Start: 54242, Stop: 54655, Start Num: 5

Candidate Starts for Rumi_82:

(Start: 5 @54242 has 22 MA's), (6, 54254), (7, 54296), (8, 54338), (10, 54371), (13, 54530), (15, 54575), (16, 54608),

Gene: Tillicus_75 Start: 55394, Stop: 55810, Start Num: 5

Candidate Starts for Tillicus_75:

(4, 55388), (Start: 5 @55394 has 22 MA's), (10, 55517), (11, 55544), (12, 55643), (13, 55676), (14, 55715), (15, 55721), (16, 55754),

Gene: Wojtek_75 Start: 56274, Stop: 56681, Start Num: 5

Candidate Starts for Wojtek_75:

(2, 56256), (4, 56268), (Start: 5 @56274 has 22 MA's), (8, 56370), (11, 56424), (12, 56523), (13, 56556), (15, 56601), (16, 56634), (17, 56637),

Gene: Zany_79 Start: 56503, Stop: 56925, Start Num: 5

Candidate Starts for Zany_79:

(1, 56482), (2, 56485), (4, 56497), (Start: 5 @56503 has 22 MA's), (7, 56557), (8, 56599), (9, 56614), (10, 56641), (11, 56668), (15, 56845), (16, 56878),