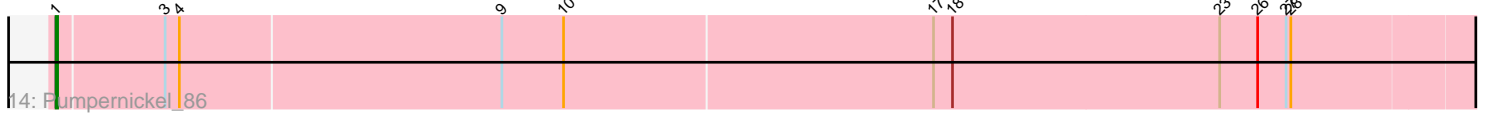
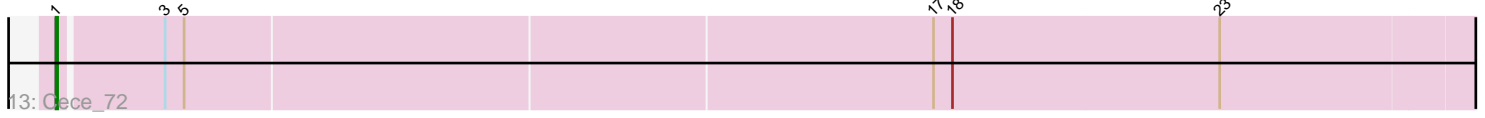
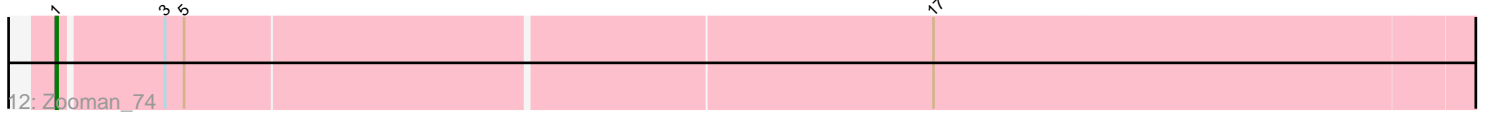
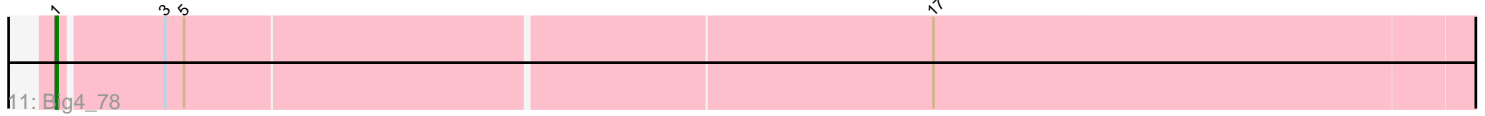
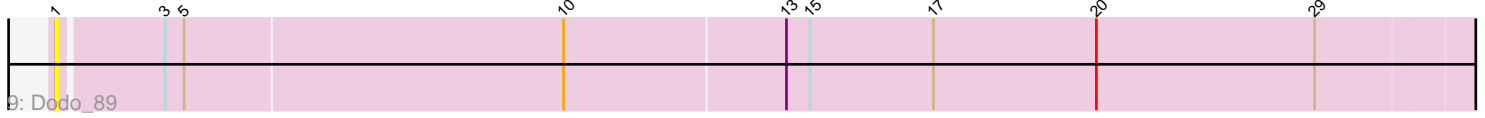
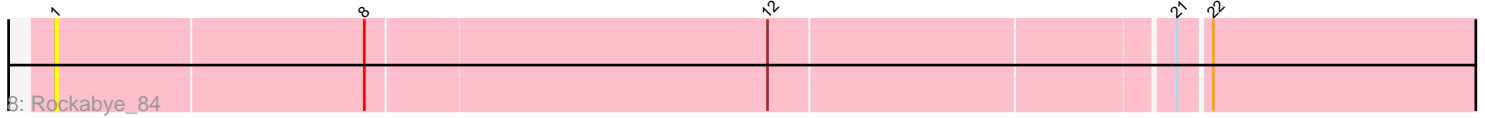
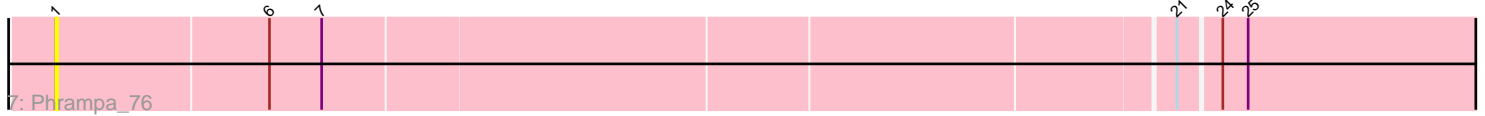
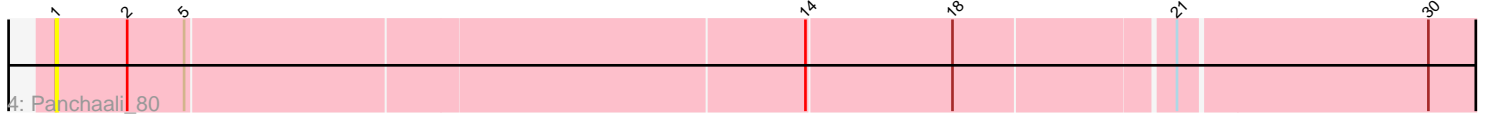
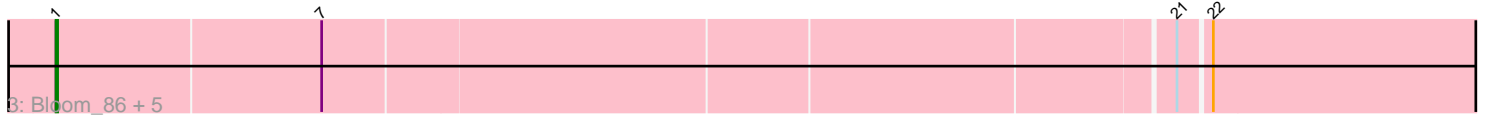
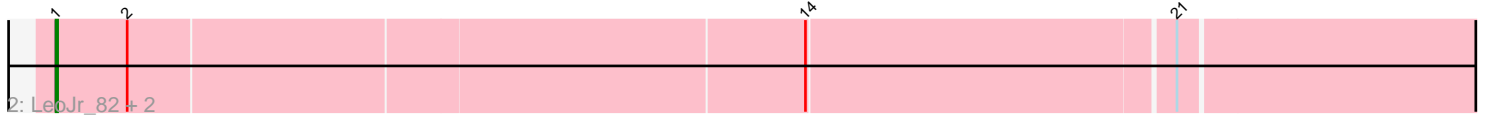
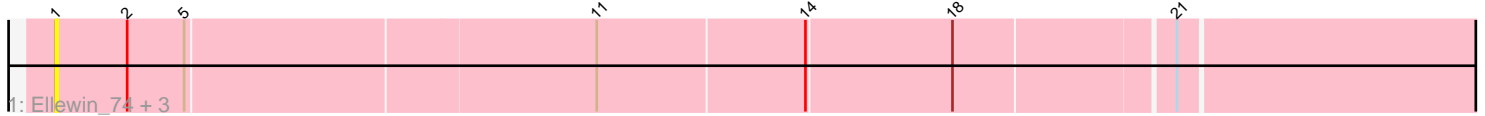


Pham 220039



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 220039 Report

This analysis was run 03/28/25 on database version 593.

Pham number 220039 has 25 members, 15 are drafts.

Phages represented in each track:

- Track 1 : Ellewin_74, KSunshine22_77, WaddleDee_76, DunneganBoMo_76
- Track 2 : LeoJr_82, Atuin_77, ReginaGlobina_82
- Track 3 : Bloom_86, GoldenEssence_71, Patbob_83, Racecar_83, Talia1610_82, Mimi_82
- Track 4 : Panchaali_80
- Track 5 : SJReid_87
- Track 6 : Chilliams_79
- Track 7 : Phrampa_76
- Track 8 : Rockabye_84
- Track 9 : Dodo_89
- Track 10 : A3Wally_89, PauloDiaboli_89
- Track 11 : Big4_78
- Track 12 : Zooman_74
- Track 13 : Cece_72
- Track 14 : Pumpernickel_86

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

The start number called the most often in the published annotations is 1, it was called in 10 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- A3Wally_89, Atuin_77, Big4_78, Bloom_86, Cece_72, Chilliams_79, Dodo_89, DunneganBoMo_76, Ellewin_74, GoldenEssence_71, KSunshine22_77, LeoJr_82, Mimi_82, Panchaali_80, Patbob_83, PauloDiaboli_89, Phrampa_76, Pumpernickel_86, Racecar_83, ReginaGlobina_82, Rockabye_84, SJReid_87, Talia1610_82, WaddleDee_76, Zooman_74,

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 1:

- Found in 25 of 25 (100.0%) of genes in pham
- Manual Annotations of this start: 10 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: A3Wally_89 (GD1), Atuin_77 (FC), Big4_78 (GD2), Bloom_86 (FC), Cece_72 (GD3), Chilliams_79 (FC), Dodo_89 (GD1), DunneganBoMo_76 (FC), Ellewin_74 (FC), GoldenEssence_71 (FC), KSunshine22_77 (FC), LeoJr_82 (FC), Mimi_82 (FC), Panchaali_80 (FC), Patbob_83 (FC), PauloDiaboli_89 (GD1), Phrampa_76 (FC), Pumpernickel_86 (GD4), Racecar_83 (FC), ReginaGlobina_82 (FC), Rockabye_84 (FC), SJReid_87 (FC), Talia1610_82 (FC), WaddleDee_76 (FC), Zooman_74 (GD2),

Summary by clusters:

There are 5 clusters represented in this pham: GD3, GD1, GD2, FC, GD4,

Info for manual annotations of cluster FC:

- Start number 1 was manually annotated 4 times for cluster FC.

Info for manual annotations of cluster GD1:

- Start number 1 was manually annotated 2 times for cluster GD1.

Info for manual annotations of cluster GD2:

- Start number 1 was manually annotated 2 times for cluster GD2.

Info for manual annotations of cluster GD3:

- Start number 1 was manually annotated 1 time for cluster GD3.

Info for manual annotations of cluster GD4:

- Start number 1 was manually annotated 1 time for cluster GD4.

Gene Information:

Gene: A3Wally_89 Start: 46992, Stop: 47873, Start Num: 1

Candidate Starts for A3Wally_89:

(Start: 1 @46992 has 10 MA's), (3, 47055), (5, 47067), (10, 47304), (13, 47442), (15, 47457), (17, 47535), (20, 47637), (28, 47760), (29, 47775),

Gene: Atuin_77 Start: 48877, Stop: 49749, Start Num: 1

Candidate Starts for Atuin_77:

(Start: 1 @48877 has 10 MA's), (2, 48922), (14, 49339), (21, 49564),

Gene: Big4_78 Start: 45834, Stop: 46709, Start Num: 1

Candidate Starts for Big4_78:

(Start: 1 @45834 has 10 MA's), (3, 45897), (5, 45909), (17, 46371),

Gene: Bloom_86 Start: 50280, Stop: 51149, Start Num: 1

Candidate Starts for Bloom_86:

(Start: 1 @50280 has 10 MA's), (7, 50445), (21, 50964), (22, 50982),

Gene: Cece_72 Start: 41904, Stop: 42782, Start Num: 1

Candidate Starts for Cece_72:

(Start: 1 @41904 has 10 MA's), (3, 41967), (5, 41979), (17, 42444), (18, 42456), (23, 42624),

Gene: Chilliams_79 Start: 52107, Stop: 52976, Start Num: 1

Candidate Starts for Chilliams_79:

(Start: 1 @52107 has 10 MA's), (12, 52545), (19, 52722), (21, 52791), (22, 52809),

Gene: Dodo_89 Start: 47314, Stop: 48195, Start Num: 1

Candidate Starts for Dodo_89:

(Start: 1 @47314 has 10 MA's), (3, 47377), (5, 47389), (10, 47626), (13, 47764), (15, 47779), (17, 47857), (20, 47959), (29, 48097),

Gene: DunneganBoMo_76 Start: 45738, Stop: 46607, Start Num: 1

Candidate Starts for DunneganBoMo_76:

(Start: 1 @45738 has 10 MA's), (2, 45783), (5, 45819), (11, 46071), (14, 46200), (18, 46290), (21, 46422),

Gene: Ellewin_74 Start: 45333, Stop: 46202, Start Num: 1

Candidate Starts for Ellewin_74:

(Start: 1 @45333 has 10 MA's), (2, 45378), (5, 45414), (11, 45666), (14, 45795), (18, 45885), (21, 46017),

Gene: GoldenEssence_71 Start: 44073, Stop: 44942, Start Num: 1

Candidate Starts for GoldenEssence_71:

(Start: 1 @44073 has 10 MA's), (7, 44238), (21, 44757), (22, 44775),

Gene: KSunshine22_77 Start: 46972, Stop: 47841, Start Num: 1

Candidate Starts for KSunshine22_77:

(Start: 1 @46972 has 10 MA's), (2, 47017), (5, 47053), (11, 47305), (14, 47434), (18, 47524), (21, 47656),

Gene: LeoJr_82 Start: 49005, Stop: 49877, Start Num: 1

Candidate Starts for LeoJr_82:

(Start: 1 @49005 has 10 MA's), (2, 49050), (14, 49467), (21, 49692),

Gene: Mimi_82 Start: 49627, Stop: 50496, Start Num: 1

Candidate Starts for Mimi_82:

(Start: 1 @49627 has 10 MA's), (7, 49792), (21, 50311), (22, 50329),

Gene: Panchaali_80 Start: 46724, Stop: 47593, Start Num: 1

Candidate Starts for Panchaali_80:

(Start: 1 @46724 has 10 MA's), (2, 46769), (5, 46805), (14, 47186), (18, 47276), (21, 47408), (30, 47561),

Gene: Patbob_83 Start: 50499, Stop: 51368, Start Num: 1

Candidate Starts for Patbob_83:

(Start: 1 @50499 has 10 MA's), (7, 50664), (21, 51183), (22, 51201),

Gene: PauloDiaboli_89 Start: 46349, Stop: 47230, Start Num: 1

Candidate Starts for PauloDiaboli_89:

(Start: 1 @46349 has 10 MA's), (3, 46412), (5, 46424), (10, 46661), (13, 46799), (15, 46814), (17, 46892), (20, 46994), (28, 47117), (29, 47132),

Gene: Phrampa_76 Start: 47201, Stop: 48070, Start Num: 1

Candidate Starts for Phrampa_76:

(Start: 1 @47201 has 10 MA's), (6, 47333), (7, 47366), (21, 47885), (24, 47909), (25, 47924),

Gene: Pumpernickel_86 Start: 47559, Stop: 48443, Start Num: 1

Candidate Starts for Pumpernickel_86:

(Start: 1 @47559 has 10 MA's), (3, 47625), (4, 47634), (9, 47835), (10, 47874), (17, 48105), (18, 48117), (23, 48285), (26, 48309), (27, 48327), (28, 48330),

Gene: Racecar_83 Start: 50280, Stop: 51149, Start Num: 1

Candidate Starts for Racecar_83:

(Start: 1 @50280 has 10 MA's), (7, 50445), (21, 50964), (22, 50982),

Gene: ReginaGlobina_82 Start: 49757, Stop: 50629, Start Num: 1

Candidate Starts for ReginaGlobina_82:

(Start: 1 @49757 has 10 MA's), (2, 49802), (14, 50219), (21, 50444),

Gene: Rockabye_84 Start: 52456, Stop: 53328, Start Num: 1

Candidate Starts for Rockabye_84:

(Start: 1 @52456 has 10 MA's), (8, 52648), (12, 52897), (21, 53143), (22, 53161),

Gene: SJReid_87 Start: 51543, Stop: 52412, Start Num: 1

Candidate Starts for SJReid_87:

(Start: 1 @51543 has 10 MA's), (12, 51981), (16, 52011), (19, 52158), (21, 52227),

Gene: Talia1610_82 Start: 49645, Stop: 50514, Start Num: 1

Candidate Starts for Talia1610_82:

(Start: 1 @49645 has 10 MA's), (7, 49810), (21, 50329), (22, 50347),

Gene: WaddleDee_76 Start: 45593, Stop: 46462, Start Num: 1

Candidate Starts for WaddleDee_76:

(Start: 1 @45593 has 10 MA's), (2, 45638), (5, 45674), (11, 45926), (14, 46055), (18, 46145), (21, 46277),

Gene: Zooman_74 Start: 44530, Stop: 45405, Start Num: 1

Candidate Starts for Zooman_74:

(Start: 1 @44530 has 10 MA's), (3, 44593), (5, 44605), (17, 45067),