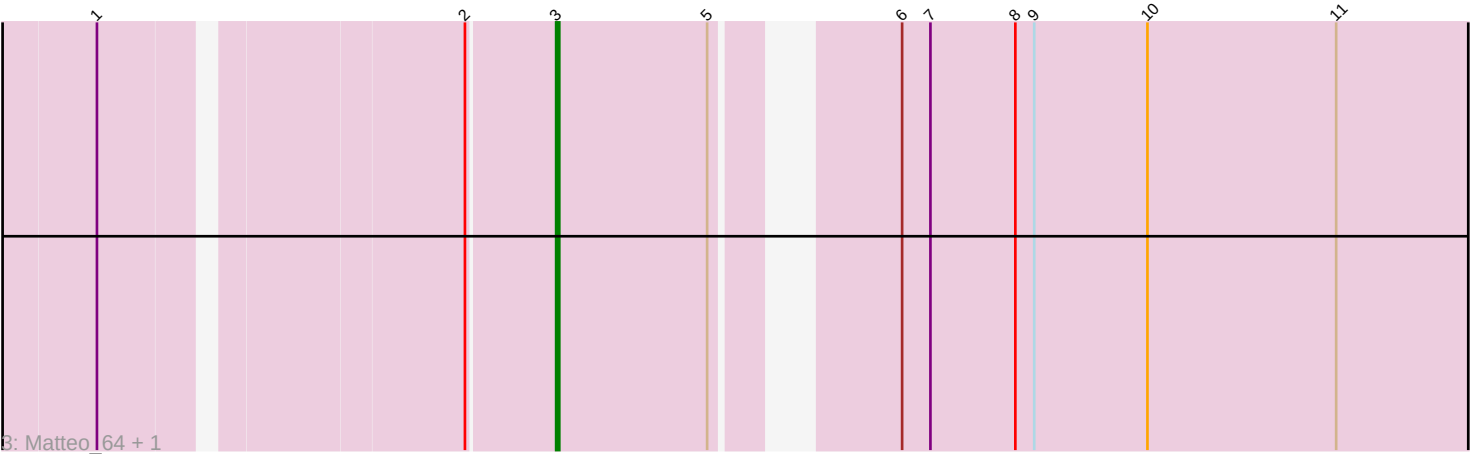
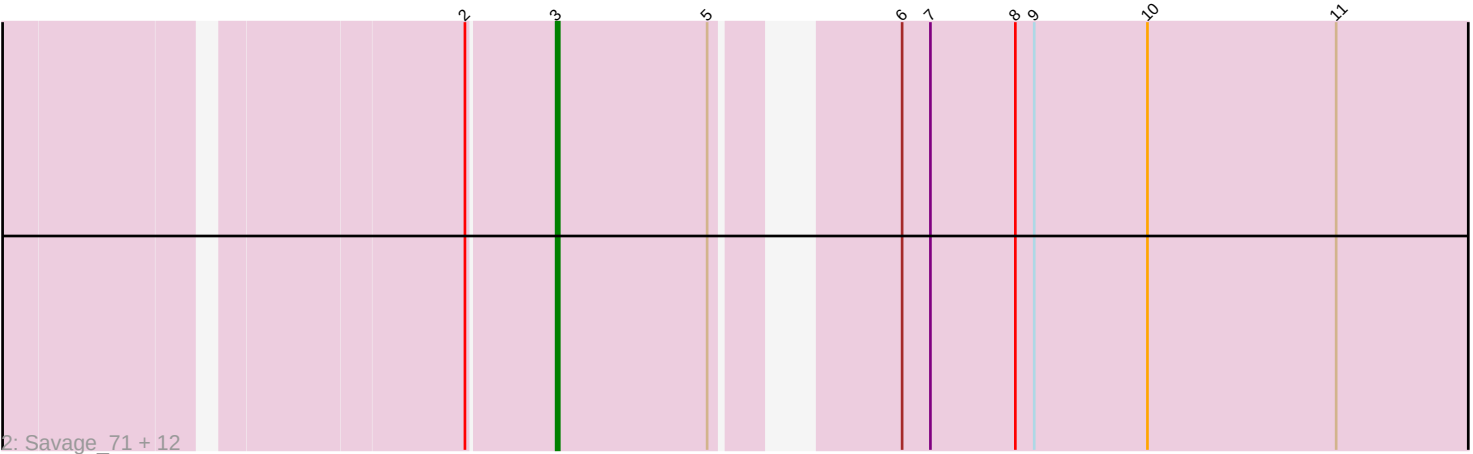
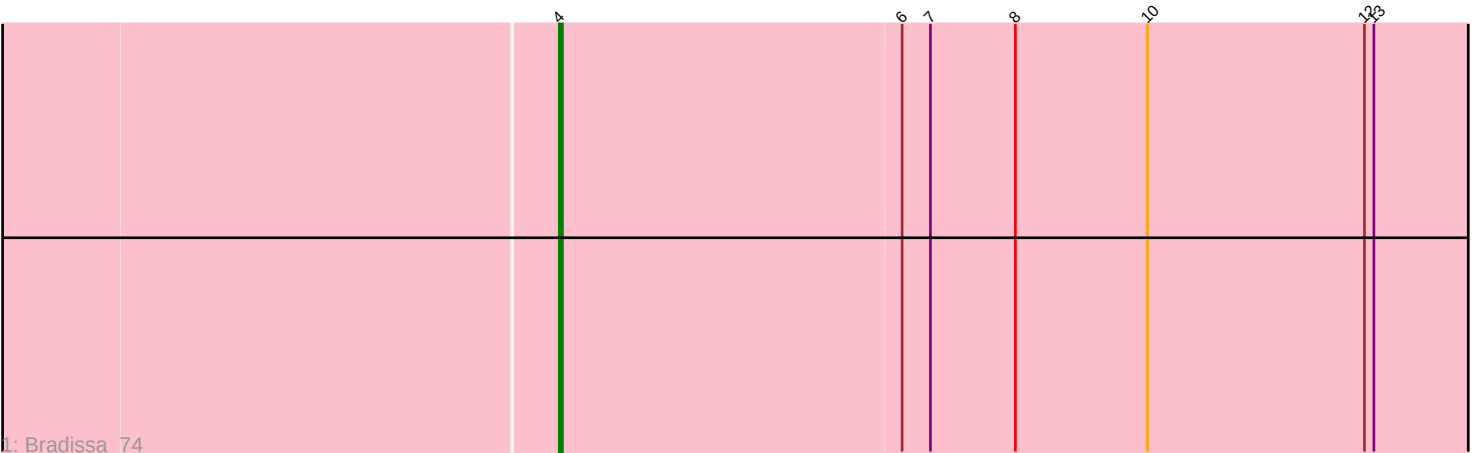




Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 280976 Report

This analysis was run 02/07/26 on database version 634.

Pham number 280976 has 16 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Bradissa_74
- Track 2 : Savage_71, GemG_71, Bjanese7_68, Mocha12_71, TuertoX_71, Cynthia_71, SoilAssassin_70, Attis_70, Nettuno_68, Whiteclaw_71, Haley23_71, Sproutie_71, Lamberg_67
- Track 3 : Matteo_64, Sahara_69

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

The start number called the most often in the published annotations is 3, it was called in 15 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Attis_70, Bjanese7_68, Cynthia_71, GemG_71, Haley23_71, Lamberg_67, Matteo_64, Mocha12_71, Nettuno_68, Sahara_69, Savage_71, SoilAssassin_70, Sproutie_71, TuertoX_71, Whiteclaw_71,

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

-

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

- Bradissa_74,

Summary by start number:

Start 3:

- Found in 15 of 16 (93.8%) of genes in pham
- Manual Annotations of this start: 15 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Attis_70 (CZ2), Bjanese7_68 (CZ2), Cynthia_71 (CZ2), GemG_71 (CZ2), Haley23_71 (CZ2), Lamberg_67 (CZ2), Matteo_64 (CZ2), Mocha12_71 (CZ2), Nettuno_68 (CZ2), Sahara_69 (CZ2), Savage_71 (CZ2), SoilAssassin_70 (CZ2), Sproutie_71 (CZ2), TuertoX_71 (CZ2), Whiteclaw_71 (CZ2),

Start 4:

- Found in 1 of 16 (6.2%) of genes in pham
- Manual Annotations of this start: 1 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bradissa_74 (CY1),

Summary by clusters:

There are 2 clusters represented in this pham: CZ2, CY1,

Info for manual annotations of cluster CY1:

- Start number 4 was manually annotated 1 time for cluster CY1.

Info for manual annotations of cluster CZ2:

- Start number 3 was manually annotated 15 times for cluster CZ2.

Gene Information:

Gene: Attis_70 Start: 46336, Stop: 46608, Start Num: 3

Candidate Starts for Attis_70:

(2, 46309), (Start: 3 @46336 has 15 MA's), (5, 46384), (6, 46426), (7, 46435), (8, 46462), (9, 46468), (10, 46504), (11, 46564),

Gene: Bjanes7_68 Start: 44497, Stop: 44769, Start Num: 3

Candidate Starts for Bjanes7_68:

(2, 44470), (Start: 3 @44497 has 15 MA's), (5, 44545), (6, 44587), (7, 44596), (8, 44623), (9, 44629), (10, 44665), (11, 44725),

Gene: Bradissa_74 Start: 51018, Stop: 51308, Start Num: 4

Candidate Starts for Bradissa_74:

(Start: 4 @51018 has 1 MA's), (6, 51126), (7, 51135), (8, 51162), (10, 51204), (12, 51273), (13, 51276),

Gene: Cynthia_71 Start: 44674, Stop: 44946, Start Num: 3

Candidate Starts for Cynthia_71:

(2, 44647), (Start: 3 @44674 has 15 MA's), (5, 44722), (6, 44764), (7, 44773), (8, 44800), (9, 44806), (10, 44842), (11, 44902),

Gene: GemG_71 Start: 44680, Stop: 44952, Start Num: 3

Candidate Starts for GemG_71:

(2, 44653), (Start: 3 @44680 has 15 MA's), (5, 44728), (6, 44770), (7, 44779), (8, 44806), (9, 44812), (10, 44848), (11, 44908),

Gene: Haley23_71 Start: 44676, Stop: 44948, Start Num: 3

Candidate Starts for Haley23_71:

(2, 44649), (Start: 3 @44676 has 15 MA's), (5, 44724), (6, 44766), (7, 44775), (8, 44802), (9, 44808), (10, 44844), (11, 44904),

Gene: Lamberg_67 Start: 43185, Stop: 43457, Start Num: 3

Candidate Starts for Lamberg_67:

(2, 43158), (Start: 3 @43185 has 15 MA's), (5, 43233), (6, 43275), (7, 43284), (8, 43311), (9, 43317), (10, 43353), (11, 43413),

Gene: Matteo_64 Start: 42430, Stop: 42702, Start Num: 3

Candidate Starts for Matteo_64:

(1, 42298), (2, 42403), (Start: 3 @42430 has 15 MA's), (5, 42478), (6, 42520), (7, 42529), (8, 42556), (9, 42562), (10, 42598), (11, 42658),

Gene: Mocha12_71 Start: 44676, Stop: 44948, Start Num: 3

Candidate Starts for Mocha12_71:

(2, 44649), (Start: 3 @44676 has 15 MA's), (5, 44724), (6, 44766), (7, 44775), (8, 44802), (9, 44808), (10, 44844), (11, 44904),

Gene: Nettuno_68 Start: 43094, Stop: 43366, Start Num: 3

Candidate Starts for Nettuno_68:

(2, 43067), (Start: 3 @43094 has 15 MA's), (5, 43142), (6, 43184), (7, 43193), (8, 43220), (9, 43226), (10, 43262), (11, 43322),

Gene: Sahara_69 Start: 43710, Stop: 43982, Start Num: 3

Candidate Starts for Sahara_69:

(1, 43578), (2, 43683), (Start: 3 @43710 has 15 MA's), (5, 43758), (6, 43800), (7, 43809), (8, 43836), (9, 43842), (10, 43878), (11, 43938),

Gene: Savage_71 Start: 44676, Stop: 44948, Start Num: 3

Candidate Starts for Savage_71:

(2, 44649), (Start: 3 @44676 has 15 MA's), (5, 44724), (6, 44766), (7, 44775), (8, 44802), (9, 44808), (10, 44844), (11, 44904),

Gene: SoilAssassin_70 Start: 46335, Stop: 46607, Start Num: 3

Candidate Starts for SoilAssassin_70:

(2, 46308), (Start: 3 @46335 has 15 MA's), (5, 46383), (6, 46425), (7, 46434), (8, 46461), (9, 46467), (10, 46503), (11, 46563),

Gene: Sproutie_71 Start: 44676, Stop: 44948, Start Num: 3

Candidate Starts for Sproutie_71:

(2, 44649), (Start: 3 @44676 has 15 MA's), (5, 44724), (6, 44766), (7, 44775), (8, 44802), (9, 44808), (10, 44844), (11, 44904),

Gene: TuertoX_71 Start: 44676, Stop: 44948, Start Num: 3

Candidate Starts for TuertoX_71:

(2, 44649), (Start: 3 @44676 has 15 MA's), (5, 44724), (6, 44766), (7, 44775), (8, 44802), (9, 44808), (10, 44844), (11, 44904),

Gene: Whiteclaw_71 Start: 44676, Stop: 44948, Start Num: 3

Candidate Starts for Whiteclaw_71:

(2, 44649), (Start: 3 @44676 has 15 MA's), (5, 44724), (6, 44766), (7, 44775), (8, 44802), (9, 44808), (10, 44844), (11, 44904),