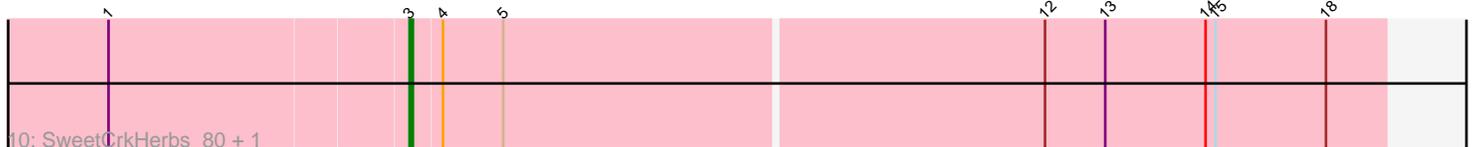
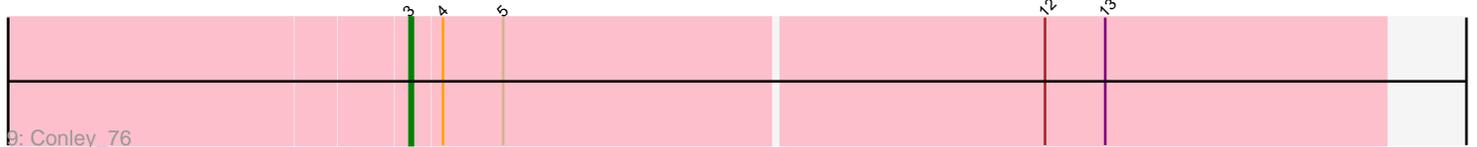
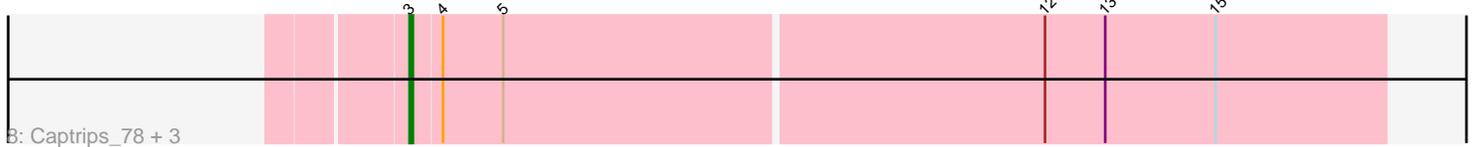
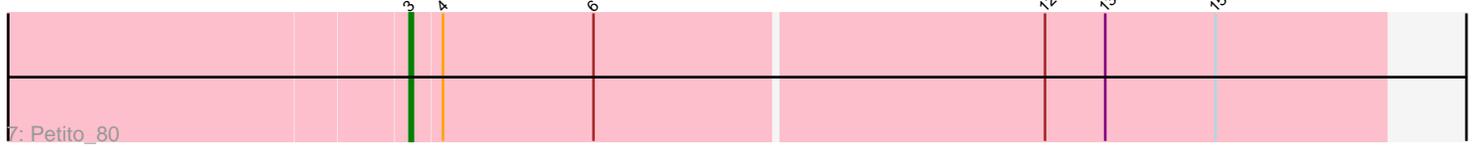
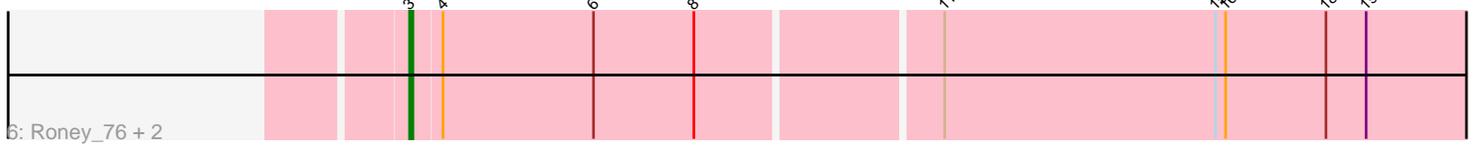
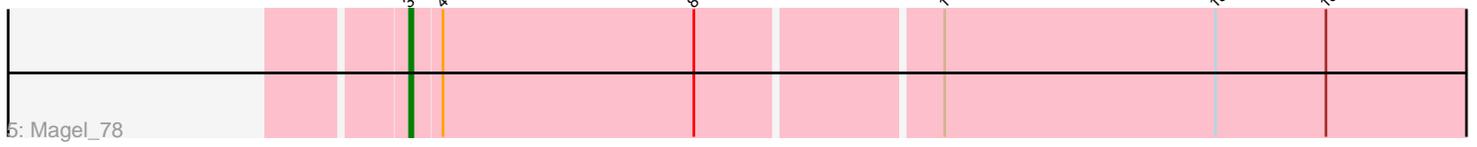
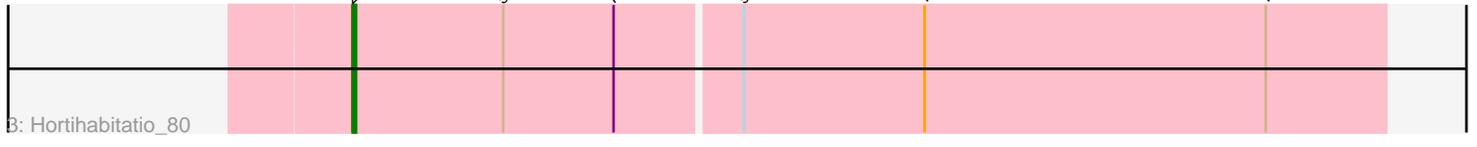
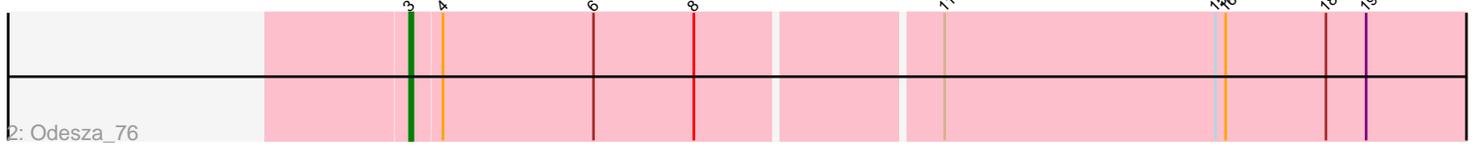
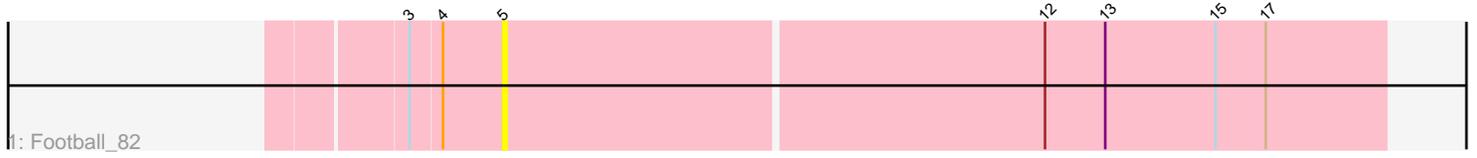


Pham 291468



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 291468 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291468 has 26 members, 6 are drafts.

Phages represented in each track:

- Track 1 : Football_82
- Track 2 : Odesza_76
- Track 3 : Hortihabitatio_80
- Track 4 : Dancer_79, Tairn4Wing_82, Kerry_76, JulesRay_79, ChickyNuggy_82, Bugg_83, Copybara_77, Trufflozitus_84, Gravy_76, Artorias_79, FortCran_79
- Track 5 : Magel_78
- Track 6 : Roney_76, Tanis_77, Gill_77
- Track 7 : Petite_80
- Track 8 : Captrips_78, Talon44_81, NoPickles_78, Avazak_80
- Track 9 : Conley_76
- Track 10 : SweetCrkHerbs_80, Perkunas_79

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 19 of the 20 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Artorias_79, Avazak_80, Bugg_83, Captrips_78, Copybara_77, ChickyNuggy_82, Conley_76, Dancer_79, FortCran_79, Gill_77, Gravy_76, JulesRay_79, Kerry_76, Magel_78, NoPickles_78, Odesza_76, Perkunas_79, Petite_80, Roney_76, SweetCrkHerbs_80, Tairn4Wing_82, Talon44_81, Tanis_77, Trufflozitus_84,

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

- Football_82,

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

- Hortihabitatio_80,

Summary by start number:

Start 2:

- Found in 1 of 26 (3.8%) of genes in pham
- Manual Annotations of this start: 1 of 20

- Called 100.0% of time when present
- Phage (with cluster) where this start called: Hortihabitatio_80 (DJ),

Start 3:

- Found in 25 of 26 (96.2%) of genes in pham
- Manual Annotations of this start: 19 of 20
- Called 96.0% of time when present
- Phage (with cluster) where this start called: Artorias_79 (DJ), Avazak_80 (DJ), Bugg_83 (DJ), Captrips_78 (DJ), Capybara_77 (DJ), ChickyNuggy_82 (DJ), Conley_76 (DJ), Dancer_79 (DJ), FortCran_79 (DJ), Gill_77 (DJ), Gravy_76 (DJ), JulesRay_79 (DJ), Kerry_76 (DJ), Magel_78 (DJ), NoPickles_78 (DJ), Odesza_76 (DJ), Perkunas_79 (DJ), Petito_80 (DJ), Roney_76 (DJ), SweetCrkHerbs_80 (DJ), Tairn4Wing_82 (DJ), Talon44_81 (DJ), Tanis_77 (DJ), Trufflozitus_84 (DJ),

Start 5:

- Found in 20 of 26 (76.9%) of genes in pham
- No Manual Annotations of this start.
- Called 5.0% of time when present
- Phage (with cluster) where this start called: Football_82 (DJ),

Summary by clusters:

There is one cluster represented in this pham: DJ

Info for manual annotations of cluster DJ:

- Start number 2 was manually annotated 1 time for cluster DJ.
- Start number 3 was manually annotated 19 times for cluster DJ.

Gene Information:

Gene: Artorias_79 Start: 51103, Stop: 51390, Start Num: 3

Candidate Starts for Artorias_79:

(Start: 3 @51103 has 19 MA's), (4, 51112), (5, 51130), (12, 51289), (13, 51307), (15, 51340), (17, 51355),

Gene: Avazak_80 Start: 51785, Stop: 52072, Start Num: 3

Candidate Starts for Avazak_80:

(Start: 3 @51785 has 19 MA's), (4, 51794), (5, 51812), (12, 51971), (13, 51989), (15, 52022),

Gene: Bugg_83 Start: 51148, Stop: 51435, Start Num: 3

Candidate Starts for Bugg_83:

(Start: 3 @51148 has 19 MA's), (4, 51157), (5, 51175), (12, 51334), (13, 51352), (15, 51385), (17, 51400),

Gene: Captrips_78 Start: 50933, Stop: 51220, Start Num: 3

Candidate Starts for Captrips_78:

(Start: 3 @50933 has 19 MA's), (4, 50942), (5, 50960), (12, 51119), (13, 51137), (15, 51170),

Gene: Capybara_77 Start: 50770, Stop: 51057, Start Num: 3

Candidate Starts for Capybara_77:

(Start: 3 @50770 has 19 MA's), (4, 50779), (5, 50797), (12, 50956), (13, 50974), (15, 51007), (17, 51022),

Gene: ChickyNuggy_82 Start: 51527, Stop: 51814, Start Num: 3

Candidate Starts for ChickyNuggy_82:

(Start: 3 @51527 has 19 MA's), (4, 51536), (5, 51554), (12, 51713), (13, 51731), (15, 51764), (17, 51779),

Gene: Conley_76 Start: 51234, Stop: 51521, Start Num: 3

Candidate Starts for Conley_76:

(Start: 3 @51234 has 19 MA's), (4, 51243), (5, 51261), (12, 51420), (13, 51438),

Gene: Dancer_79 Start: 50840, Stop: 51127, Start Num: 3

Candidate Starts for Dancer_79:

(Start: 3 @50840 has 19 MA's), (4, 50849), (5, 50867), (12, 51026), (13, 51044), (15, 51077), (17, 51092),

Gene: Football_82 Start: 50757, Stop: 51017, Start Num: 5

Candidate Starts for Football_82:

(Start: 3 @50730 has 19 MA's), (4, 50739), (5, 50757), (12, 50916), (13, 50934), (15, 50967), (17, 50982),

Gene: FortCran_79 Start: 51103, Stop: 51390, Start Num: 3

Candidate Starts for FortCran_79:

(Start: 3 @51103 has 19 MA's), (4, 51112), (5, 51130), (12, 51289), (13, 51307), (15, 51340), (17, 51355),

Gene: Gill_77 Start: 50798, Stop: 51109, Start Num: 3

Candidate Starts for Gill_77:

(Start: 3 @50798 has 19 MA's), (4, 50807), (6, 50852), (8, 50882), (11, 50951), (15, 51032), (16, 51035), (18, 51065), (19, 51077),

Gene: Gravy_76 Start: 50460, Stop: 50747, Start Num: 3

Candidate Starts for Gravy_76:

(Start: 3 @50460 has 19 MA's), (4, 50469), (5, 50487), (12, 50646), (13, 50664), (15, 50697), (17, 50712),

Gene: Hortihabitatio_80 Start: 52238, Stop: 52543, Start Num: 2

Candidate Starts for Hortihabitatio_80:

(Start: 2 @52238 has 1 MA's), (5, 52283), (7, 52316), (9, 52352), (10, 52406), (17, 52508),

Gene: JulesRay_79 Start: 51452, Stop: 51739, Start Num: 3

Candidate Starts for JulesRay_79:

(Start: 3 @51452 has 19 MA's), (4, 51461), (5, 51479), (12, 51638), (13, 51656), (15, 51689), (17, 51704),

Gene: Kerry_76 Start: 50523, Stop: 50810, Start Num: 3

Candidate Starts for Kerry_76:

(Start: 3 @50523 has 19 MA's), (4, 50532), (5, 50550), (12, 50709), (13, 50727), (15, 50760), (17, 50775),

Gene: Magel_78 Start: 50713, Stop: 51024, Start Num: 3

Candidate Starts for Magel_78:

(Start: 3 @50713 has 19 MA's), (4, 50722), (8, 50797), (11, 50866), (15, 50947), (18, 50980),

Gene: NoPickles_78 Start: 50619, Stop: 50906, Start Num: 3

Candidate Starts for NoPickles_78:

(Start: 3 @50619 has 19 MA's), (4, 50628), (5, 50646), (12, 50805), (13, 50823), (15, 50856),

Gene: Odesza_76 Start: 50660, Stop: 50971, Start Num: 3

Candidate Starts for Odesza_76:

(Start: 3 @50660 has 19 MA's), (4, 50669), (6, 50714), (8, 50744), (11, 50813), (15, 50894), (16, 50897), (18, 50927), (19, 50939),

Gene: Perkunas_79 Start: 50720, Stop: 51007, Start Num: 3

Candidate Starts for Perkunas_79:

(1, 50633), (Start: 3 @50720 has 19 MA's), (4, 50729), (5, 50747), (12, 50906), (13, 50924), (14, 50954), (15, 50957), (18, 50990),

Gene: Petito_80 Start: 52186, Stop: 52473, Start Num: 3

Candidate Starts for Petito_80:

(Start: 3 @52186 has 19 MA's), (4, 52195), (6, 52240), (12, 52372), (13, 52390), (15, 52423),

Gene: Roney_76 Start: 50823, Stop: 51134, Start Num: 3

Candidate Starts for Roney_76:

(Start: 3 @50823 has 19 MA's), (4, 50832), (6, 50877), (8, 50907), (11, 50976), (15, 51057), (16, 51060), (18, 51090), (19, 51102),

Gene: SweetCrkHerbs_80 Start: 50733, Stop: 51020, Start Num: 3

Candidate Starts for SweetCrkHerbs_80:

(1, 50646), (Start: 3 @50733 has 19 MA's), (4, 50742), (5, 50760), (12, 50919), (13, 50937), (14, 50967), (15, 50970), (18, 51003),

Gene: Tairn4Wing_82 Start: 50941, Stop: 51228, Start Num: 3

Candidate Starts for Tairn4Wing_82:

(Start: 3 @50941 has 19 MA's), (4, 50950), (5, 50968), (12, 51127), (13, 51145), (15, 51178), (17, 51193),

Gene: Talon44_81 Start: 51571, Stop: 51858, Start Num: 3

Candidate Starts for Talon44_81:

(Start: 3 @51571 has 19 MA's), (4, 51580), (5, 51598), (12, 51757), (13, 51775), (15, 51808),

Gene: Tanis_77 Start: 50643, Stop: 50954, Start Num: 3

Candidate Starts for Tanis_77:

(Start: 3 @50643 has 19 MA's), (4, 50652), (6, 50697), (8, 50727), (11, 50796), (15, 50877), (16, 50880), (18, 50910), (19, 50922),

Gene: Trufflozitus_84 Start: 51456, Stop: 51743, Start Num: 3

Candidate Starts for Trufflozitus_84:

(Start: 3 @51456 has 19 MA's), (4, 51465), (5, 51483), (12, 51642), (13, 51660), (15, 51693), (17, 51708),