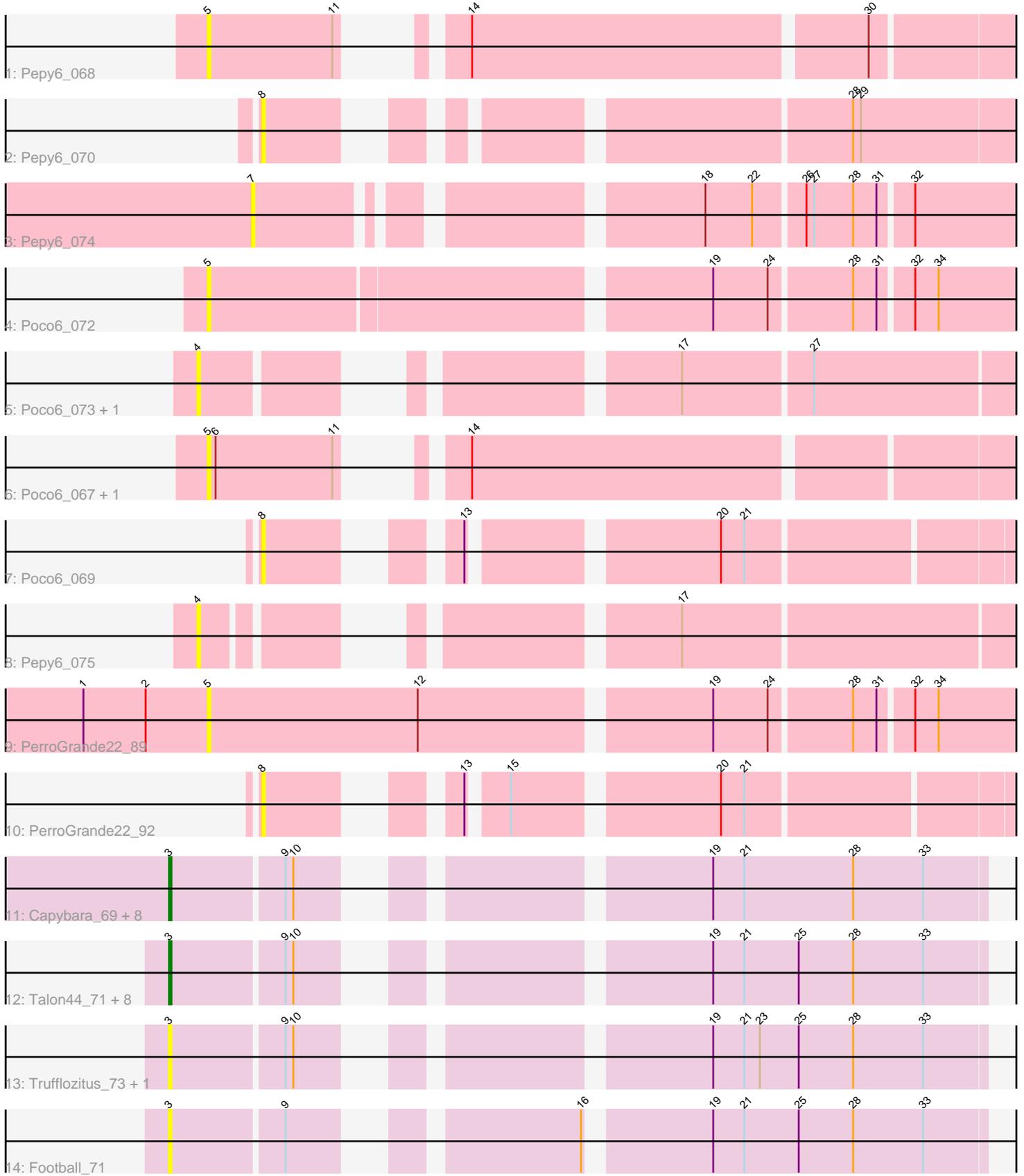


Pham 288086



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 288086 Report

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

Pham number 288086 has 33 members, 17 are drafts.

Phages represented in each track:

- Track 1 : Pepy6_068
- Track 2 : Pepy6_070
- Track 3 : Pepy6_074
- Track 4 : POCO6_072
- Track 5 : POCO6_073, PerroGrande22_88
- Track 6 : POCO6_067, PerroGrande22_94
- Track 7 : POCO6_069
- Track 8 : Pepy6_075
- Track 9 : PerroGrande22_89
- Track 10 : PerroGrande22_92
- Track 11 : Capybara_69, Magel_70, Tanis_69, Gill_69, Gravy_68, Dancer_69, Odesza_68, Kerry_68, Roney_69
- Track 12 : Talon44_71, Bugg_72, ChickyNuggy_72, Artorias_69, Captrips_68, NoPickles_68, FortCran_69, Avazak_70, JulesRay_69
- Track 13 : Trufflozitus_73, Tairn4Wing_71
- Track 14 : Football_71

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 16 of the 16 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Artorias_69, Avazak_70, Bugg_72, Captrips_68, Capybara_69, ChickyNuggy_72, Dancer_69, Football_71, FortCran_69, Gill_69, Gravy_68, JulesRay_69, Kerry_68, Magel_70, NoPickles_68, Odesza_68, Roney_69, Tairn4Wing_71, Talon44_71, Tanis_69, Trufflozitus_73,

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

-

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

- Pepy6_068, Pepy6_070, Pepy6_074, Pepy6_075, PerroGrande22_88, PerroGrande22_89, PerroGrande22_92, PerroGrande22_94, POCO6_067,

Poco6_069, Poco6_072, Poco6_073,

Summary by start number:

Start 3:

- Found in 21 of 33 (63.6%) of genes in pham
- Manual Annotations of this start: 16 of 16
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Artorias_69 (DJ), Avazak_70 (DJ), Bugg_72 (DJ), Captrips_68 (DJ), Capybara_69 (DJ), ChickyNuggy_72 (DJ), Dancer_69 (DJ), Football_71 (DJ), FortCran_69 (DJ), Gill_69 (DJ), Gravy_68 (DJ), JulesRay_69 (DJ), Kerry_68 (DJ), Magel_70 (DJ), NoPickles_68 (DJ), Odesza_68 (DJ), Roney_69 (DJ), Tairn4Wing_71 (DJ), Talon44_71 (DJ), Tanis_69 (DJ), Trufflozitus_73 (DJ),

Start 4:

- Found in 3 of 33 (9.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pepy6_075 (CC), PerroGrande22_88 (CC), Poco6_073 (CC),

Start 5:

- Found in 5 of 33 (15.2%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pepy6_068 (CC), PerroGrande22_89 (CC), PerroGrande22_94 (CC), Poco6_067 (CC), Poco6_072 (CC),

Start 7:

- Found in 1 of 33 (3.0%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pepy6_074 (CC),

Start 8:

- Found in 3 of 33 (9.1%) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Pepy6_070 (CC), PerroGrande22_92 (CC), Poco6_069 (CC),

Summary by clusters:

There are 2 clusters represented in this pham: CC, DJ,

Info for manual annotations of cluster DJ:

- Start number 3 was manually annotated 16 times for cluster DJ.

Gene Information:

Gene: Artorias_69 Start: 48091, Stop: 48366, Start Num: 3

Candidate Starts for Artorias_69:

(Start: 3 @48091 has 16 MA's), (9, 48133), (10, 48136), (19, 48262), (21, 48274), (25, 48295), (28, 48316), (33, 48343),

Gene: Avazak_70 Start: 48418, Stop: 48693, Start Num: 3

Candidate Starts for Avazak_70:

(Start: 3 @48418 has 16 MA's), (9, 48460), (10, 48463), (19, 48589), (21, 48601), (25, 48622), (28, 48643), (33, 48670),

Gene: Bugg_72 Start: 48136, Stop: 48411, Start Num: 3

Candidate Starts for Bugg_72:

(Start: 3 @48136 has 16 MA's), (9, 48178), (10, 48181), (19, 48307), (21, 48319), (25, 48340), (28, 48361), (33, 48388),

Gene: Captrips_68 Start: 47566, Stop: 47841, Start Num: 3

Candidate Starts for Captrips_68:

(Start: 3 @47566 has 16 MA's), (9, 47608), (10, 47611), (19, 47737), (21, 47749), (25, 47770), (28, 47791), (33, 47818),

Gene: Capybara_69 Start: 47899, Stop: 48174, Start Num: 3

Candidate Starts for Capybara_69:

(Start: 3 @47899 has 16 MA's), (9, 47941), (10, 47944), (19, 48070), (21, 48082), (28, 48124), (33, 48151),

Gene: ChickyNuggy_72 Start: 48159, Stop: 48434, Start Num: 3

Candidate Starts for ChickyNuggy_72:

(Start: 3 @48159 has 16 MA's), (9, 48201), (10, 48204), (19, 48330), (21, 48342), (25, 48363), (28, 48384), (33, 48411),

Gene: Dancer_69 Start: 47828, Stop: 48103, Start Num: 3

Candidate Starts for Dancer_69:

(Start: 3 @47828 has 16 MA's), (9, 47870), (10, 47873), (19, 47999), (21, 48011), (28, 48053), (33, 48080),

Gene: Football_71 Start: 47717, Stop: 47992, Start Num: 3

Candidate Starts for Football_71:

(Start: 3 @47717 has 16 MA's), (9, 47759), (16, 47846), (19, 47888), (21, 47900), (25, 47921), (28, 47942), (33, 47969),

Gene: FortCran_69 Start: 48091, Stop: 48366, Start Num: 3

Candidate Starts for FortCran_69:

(Start: 3 @48091 has 16 MA's), (9, 48133), (10, 48136), (19, 48262), (21, 48274), (25, 48295), (28, 48316), (33, 48343),

Gene: Gill_69 Start: 47911, Stop: 48186, Start Num: 3

Candidate Starts for Gill_69:

(Start: 3 @47911 has 16 MA's), (9, 47953), (10, 47956), (19, 48082), (21, 48094), (28, 48136), (33, 48163),

Gene: Gravy_68 Start: 47589, Stop: 47864, Start Num: 3

Candidate Starts for Gravy_68:

(Start: 3 @47589 has 16 MA's), (9, 47631), (10, 47634), (19, 47760), (21, 47772), (28, 47814), (33, 47841),

Gene: JulesRay_69 Start: 48084, Stop: 48359, Start Num: 3

Candidate Starts for JulesRay_69:

(Start: 3 @48084 has 16 MA's), (9, 48126), (10, 48129), (19, 48255), (21, 48267), (25, 48288), (28, 48309), (33, 48336),

Gene: Kerry_68 Start: 47589, Stop: 47864, Start Num: 3

Candidate Starts for Kerry_68:

(Start: 3 @47589 has 16 MA's), (9, 47631), (10, 47634), (19, 47760), (21, 47772), (28, 47814), (33, 47841),

Gene: Magel_70 Start: 47826, Stop: 48101, Start Num: 3

Candidate Starts for Magel_70:

(Start: 3 @47826 has 16 MA's), (9, 47868), (10, 47871), (19, 47997), (21, 48009), (28, 48051), (33, 48078),

Gene: NoPickles_68 Start: 47252, Stop: 47527, Start Num: 3

Candidate Starts for NoPickles_68:

(Start: 3 @47252 has 16 MA's), (9, 47294), (10, 47297), (19, 47423), (21, 47435), (25, 47456), (28, 47477), (33, 47504),

Gene: Odesza_68 Start: 47770, Stop: 48045, Start Num: 3

Candidate Starts for Odesza_68:

(Start: 3 @47770 has 16 MA's), (9, 47812), (10, 47815), (19, 47941), (21, 47953), (28, 47995), (33, 48022),

Gene: Pepy6_068 Start: 62108, Stop: 62392, Start Num: 5

Candidate Starts for Pepy6_068:

(5, 62108), (11, 62156), (14, 62174), (30, 62321),

Gene: Pepy6_070 Start: 61518, Stop: 61811, Start Num: 8

Candidate Starts for Pepy6_070:

(8, 61518), (28, 61701), (29, 61704),

Gene: Pepy6_074 Start: 59910, Stop: 60173, Start Num: 7

Candidate Starts for Pepy6_074:

(7, 59910), (18, 60057), (22, 60075), (26, 60093), (27, 60096), (28, 60111), (31, 60120), (32, 60132),

Gene: Pepy6_075 Start: 59597, Stop: 59881, Start Num: 4

Candidate Starts for Pepy6_075:

(4, 59597), (17, 59735),

Gene: PerroGrande22_94 Start: 63620, Stop: 63904, Start Num: 5

Candidate Starts for PerroGrande22_94:

(5, 63620), (6, 63623), (11, 63668), (14, 63686),

Gene: PerroGrande22_89 Start: 61683, Stop: 61979, Start Num: 5

Candidate Starts for PerroGrande22_89:

(1, 61635), (2, 61659), (5, 61683), (12, 61764), (19, 61869), (24, 61890), (28, 61920), (31, 61929), (32, 61941), (34, 61950),

Gene: PerroGrande22_92 Start: 63051, Stop: 63311, Start Num: 8
Candidate Starts for PerroGrande22_92:
(8, 63051), (13, 63102), (15, 63114), (20, 63186), (21, 63195),

Gene: PerroGrande22_88 Start: 61384, Stop: 61671, Start Num: 4
Candidate Starts for PerroGrande22_88:
(4, 61384), (17, 61525), (27, 61573),

Gene: Poco6_072 Start: 61081, Stop: 61374, Start Num: 5
Candidate Starts for Poco6_072:
(5, 61081), (19, 61264), (24, 61285), (28, 61315), (31, 61324), (32, 61336), (34, 61345),

Gene: Poco6_073 Start: 60766, Stop: 61053, Start Num: 4
Candidate Starts for Poco6_073:
(4, 60766), (17, 60907), (27, 60955),

Gene: Poco6_067 Start: 63028, Stop: 63312, Start Num: 5
Candidate Starts for Poco6_067:
(5, 63028), (6, 63031), (11, 63076), (14, 63094),

Gene: Poco6_069 Start: 62459, Stop: 62719, Start Num: 8
Candidate Starts for Poco6_069:
(8, 62459), (13, 62510), (20, 62594), (21, 62603),

Gene: Roney_69 Start: 47936, Stop: 48211, Start Num: 3
Candidate Starts for Roney_69:
(Start: 3 @47936 has 16 MA's), (9, 47978), (10, 47981), (19, 48107), (21, 48119), (28, 48161), (33, 48188),

Gene: Tairn4Wing_71 Start: 47928, Stop: 48203, Start Num: 3
Candidate Starts for Tairn4Wing_71:
(Start: 3 @47928 has 16 MA's), (9, 47970), (10, 47973), (19, 48099), (21, 48111), (23, 48117), (25, 48132), (28, 48153), (33, 48180),

Gene: Talon44_71 Start: 48204, Stop: 48479, Start Num: 3
Candidate Starts for Talon44_71:
(Start: 3 @48204 has 16 MA's), (9, 48246), (10, 48249), (19, 48375), (21, 48387), (25, 48408), (28, 48429), (33, 48456),

Gene: Tanis_69 Start: 47756, Stop: 48031, Start Num: 3
Candidate Starts for Tanis_69:
(Start: 3 @47756 has 16 MA's), (9, 47798), (10, 47801), (19, 47927), (21, 47939), (28, 47981), (33, 48008),

Gene: Trufflozitus_73 Start: 48442, Stop: 48717, Start Num: 3
Candidate Starts for Trufflozitus_73:
(Start: 3 @48442 has 16 MA's), (9, 48484), (10, 48487), (19, 48613), (21, 48625), (23, 48631), (25, 48646), (28, 48667), (33, 48694),