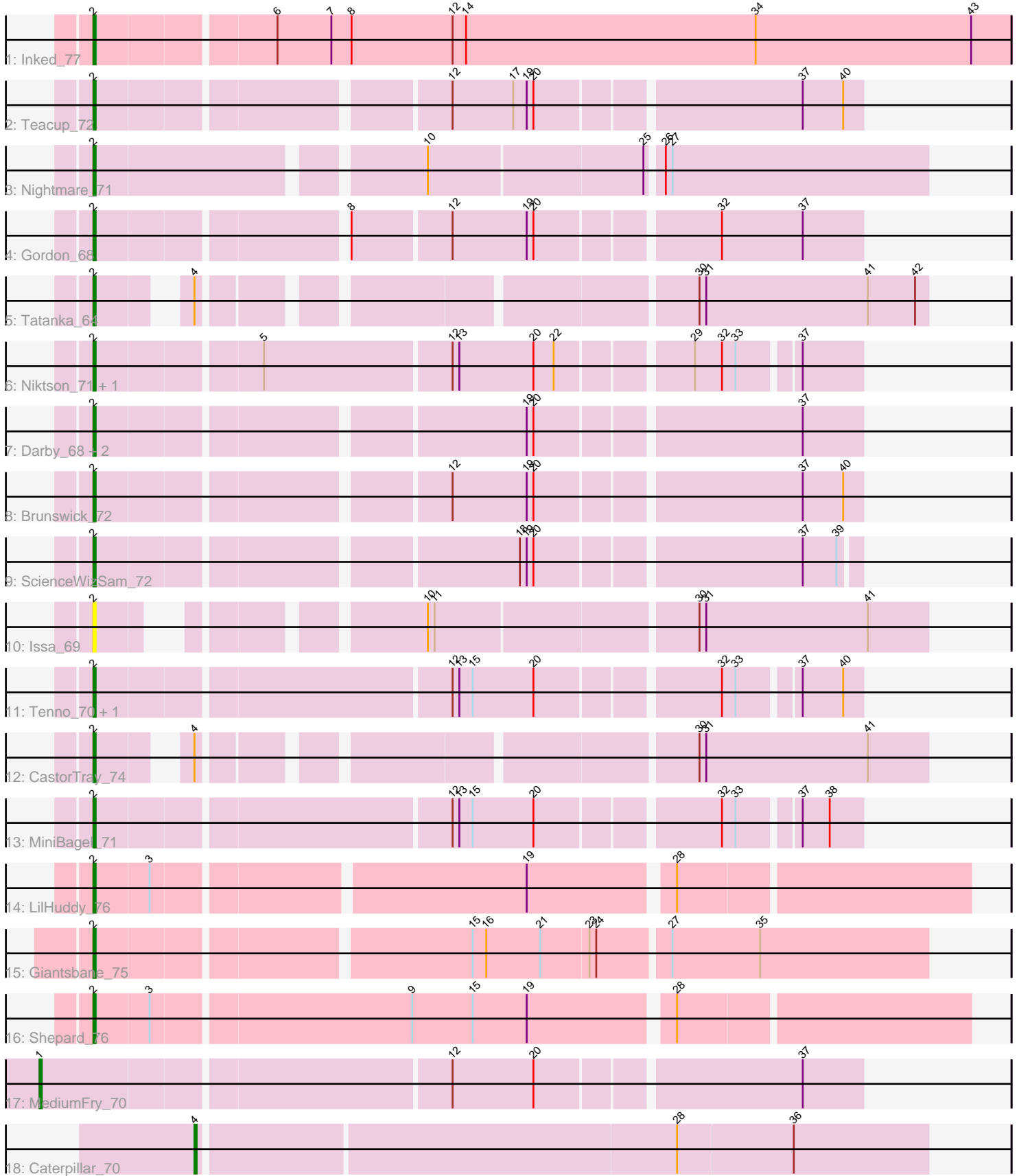


Pham 171756



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 171756 Report

This analysis was run 07/10/24 on database version 566.

Pham number 171756 has 22 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Inked\_77
- Track 2 : Teacup\_72
- Track 3 : Nightmare\_71
- Track 4 : Gordon\_68
- Track 5 : Tatanka\_64
- Track 6 : Niktson\_71, ElephantMan\_71
- Track 7 : Darby\_68, Trustiboi\_69, DevitoJr\_70
- Track 8 : Brunswick\_72
- Track 9 : ScienceWizSam\_72
- Track 10 : Issa\_69
- Track 11 : Tenno\_70, CapnMurica\_68
- Track 12 : CastorTray\_74
- Track 13 : MiniBagel\_71
- Track 14 : LilHuddy\_76
- Track 15 : Giantsbane\_75
- Track 16 : Shepard\_76
- Track 17 : MediumFry\_70
- Track 18 : Caterpillar\_70

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

The start number called the most often in the published annotations is 2, it was called in 19 of the 21 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Brunswick\_72, CapnMurica\_68, CastorTray\_74, Darby\_68, DevitoJr\_70, ElephantMan\_71, Giantsbane\_75, Gordon\_68, Inked\_77, Issa\_69, LilHuddy\_76, MiniBagel\_71, Nightmare\_71, Niktson\_71, ScienceWizSam\_72, Shepard\_76, Tatanka\_64, Teacup\_72, Tenno\_70, Trustiboi\_69,

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

- 

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

- Caterpillar\_70, MediumFry\_70,

### Summary by start number:

#### Start 1:

- Found in 1 of 22 ( 4.5% ) of genes in pham
- Manual Annotations of this start: 1 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: MediumFry\_70 (AU4),

#### Start 2:

- Found in 20 of 22 ( 90.9% ) of genes in pham
- Manual Annotations of this start: 19 of 21
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Brunswick\_72 (AU1), CapnMurica\_68 (AU1), CastorTray\_74 (AU1), Darby\_68 (AU1), DevitoJr\_70 (AU1), ElephantMan\_71 (AU1), Giantsbane\_75 (AU2), Gordon\_68 (AU1), Inked\_77 (AU), Issa\_69 (AU1), LilHuddy\_76 (AU2), MiniBagel\_71 (AU1), Nightmare\_71 (AU1), Niktson\_71 (AU1), ScienceWizSam\_72 (AU1), Shepard\_76 (AU2), Tatanka\_64 (AU1), Teacup\_72 (AU1), Tenno\_70 (AU1), Trustiboi\_69 (AU1),

#### Start 4:

- Found in 3 of 22 ( 13.6% ) of genes in pham
- Manual Annotations of this start: 1 of 21
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Caterpillar\_70 (AU4),

### Summary by clusters:

There are 4 clusters represented in this pham: AU1, AU2, AU, AU4,

Info for manual annotations of cluster AU:

- Start number 2 was manually annotated 1 time for cluster AU.

Info for manual annotations of cluster AU1:

- Start number 2 was manually annotated 15 times for cluster AU1.

Info for manual annotations of cluster AU2:

- Start number 2 was manually annotated 3 times for cluster AU2.

Info for manual annotations of cluster AU4:

- Start number 1 was manually annotated 1 time for cluster AU4.
- Start number 4 was manually annotated 1 time for cluster AU4.

### Gene Information:

Gene: Brunswick\_72 Start: 47263, Stop: 47580, Start Num: 2

Candidate Starts for Brunswick\_72:

(Start: 2 @47263 has 19 MA's), (12, 47407), (19, 47440), (20, 47443), (37, 47554), (40, 47572),

Gene: CapnMurica\_68 Start: 47980, Stop: 48297, Start Num: 2

Candidate Starts for CapnMurica\_68:

(Start: 2 @47980 has 19 MA's), (12, 48130), (13, 48133), (15, 48139), (20, 48166), (32, 48241), (33, 48247), (37, 48271), (40, 48289),

Gene: CastorTray\_74 Start: 48014, Stop: 48340, Start Num: 2

Candidate Starts for CastorTray\_74:

(Start: 2 @48014 has 19 MA's), (Start: 4 @48044 has 1 MA's), (30, 48239), (31, 48242), (41, 48314),

Gene: Caterpillar\_70 Start: 46858, Stop: 47175, Start Num: 4

Candidate Starts for Caterpillar\_70:

(Start: 4 @46858 has 1 MA's), (28, 47065), (36, 47116),

Gene: Darby\_68 Start: 47007, Stop: 47324, Start Num: 2

Candidate Starts for Darby\_68:

(Start: 2 @47007 has 19 MA's), (19, 47184), (20, 47187), (37, 47298),

Gene: DevitoJr\_70 Start: 47392, Stop: 47709, Start Num: 2

Candidate Starts for DevitoJr\_70:

(Start: 2 @47392 has 19 MA's), (19, 47569), (20, 47572), (37, 47683),

Gene: ElephantMan\_71 Start: 47893, Stop: 48210, Start Num: 2

Candidate Starts for ElephantMan\_71:

(Start: 2 @47893 has 19 MA's), (5, 47962), (12, 48043), (13, 48046), (20, 48079), (22, 48088), (29, 48142), (32, 48154), (33, 48160), (37, 48184),

Gene: Giantsbane\_75 Start: 46546, Stop: 46899, Start Num: 2

Candidate Starts for Giantsbane\_75:

(Start: 2 @46546 has 19 MA's), (15, 46702), (16, 46708), (21, 46732), (23, 46753), (24, 46756), (27, 46786), (35, 46825),

Gene: Gordon\_68 Start: 47880, Stop: 48197, Start Num: 2

Candidate Starts for Gordon\_68:

(Start: 2 @47880 has 19 MA's), (8, 47982), (12, 48024), (19, 48057), (20, 48060), (32, 48135), (37, 48171),

Gene: Inked\_77 Start: 48470, Stop: 48871, Start Num: 2

Candidate Starts for Inked\_77:

(Start: 2 @48470 has 19 MA's), (6, 48545), (7, 48569), (8, 48578), (12, 48623), (14, 48629), (34, 48758), (43, 48854),

Gene: Issa\_69 Start: 47054, Stop: 47380, Start Num: 2

Candidate Starts for Issa\_69:

(Start: 2 @47054 has 19 MA's), (10, 47165), (11, 47168), (30, 47279), (31, 47282), (41, 47354),

Gene: LilHuddy\_76 Start: 47672, Stop: 48037, Start Num: 2

Candidate Starts for LilHuddy\_76:

(Start: 2 @47672 has 19 MA's), (3, 47696), (19, 47852), (28, 47912),

Gene: MediumFry\_70 Start: 47193, Stop: 47540, Start Num: 1

Candidate Starts for MediumFry\_70:

(Start: 1 @47193 has 1 MA's), (12, 47367), (20, 47403), (37, 47514),

Gene: MiniBagel\_71 Start: 47984, Stop: 48301, Start Num: 2

Candidate Starts for MiniBagel\_71:

(Start: 2 @47984 has 19 MA's), (12, 48134), (13, 48137), (15, 48143), (20, 48170), (32, 48245), (33, 48251), (37, 48275), (38, 48287),

Gene: Nightmare\_71 Start: 48297, Stop: 48647, Start Num: 2

Candidate Starts for Nightmare\_71:

(Start: 2 @48297 has 19 MA's), (10, 48432), (25, 48525), (26, 48531), (27, 48534),

Gene: Niktson\_71 Start: 47893, Stop: 48210, Start Num: 2

Candidate Starts for Niktson\_71:

(Start: 2 @47893 has 19 MA's), (5, 47962), (12, 48043), (13, 48046), (20, 48079), (22, 48088), (29, 48142), (32, 48154), (33, 48160), (37, 48184),

Gene: ScienceWizSam\_72 Start: 47594, Stop: 47908, Start Num: 2

Candidate Starts for ScienceWizSam\_72:

(Start: 2 @47594 has 19 MA's), (18, 47768), (19, 47771), (20, 47774), (37, 47885), (39, 47900),

Gene: Shepard\_76 Start: 47525, Stop: 47896, Start Num: 2

Candidate Starts for Shepard\_76:

(Start: 2 @47525 has 19 MA's), (3, 47549), (9, 47660), (15, 47687), (19, 47711), (28, 47771),

Gene: Tatanka\_64 Start: 47501, Stop: 47827, Start Num: 2

Candidate Starts for Tatanka\_64:

(Start: 2 @47501 has 19 MA's), (Start: 4 @47531 has 1 MA's), (30, 47726), (31, 47729), (41, 47801), (42, 47822),

Gene: Teacup\_72 Start: 47933, Stop: 48250, Start Num: 2

Candidate Starts for Teacup\_72:

(Start: 2 @47933 has 19 MA's), (12, 48077), (17, 48104), (19, 48110), (20, 48113), (37, 48224), (40, 48242),

Gene: Tenno\_70 Start: 48017, Stop: 48334, Start Num: 2

Candidate Starts for Tenno\_70:

(Start: 2 @48017 has 19 MA's), (12, 48167), (13, 48170), (15, 48176), (20, 48203), (32, 48278), (33, 48284), (37, 48308), (40, 48326),

Gene: Trustiboi\_69 Start: 47616, Stop: 47933, Start Num: 2

Candidate Starts for Trustiboi\_69:

(Start: 2 @47616 has 19 MA's), (19, 47793), (20, 47796), (37, 47907),