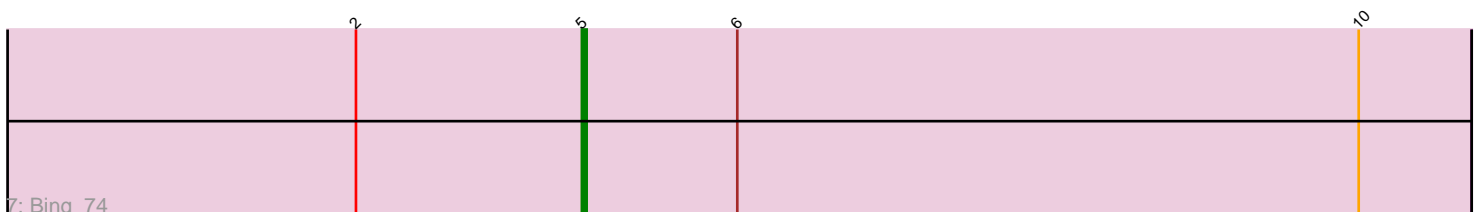
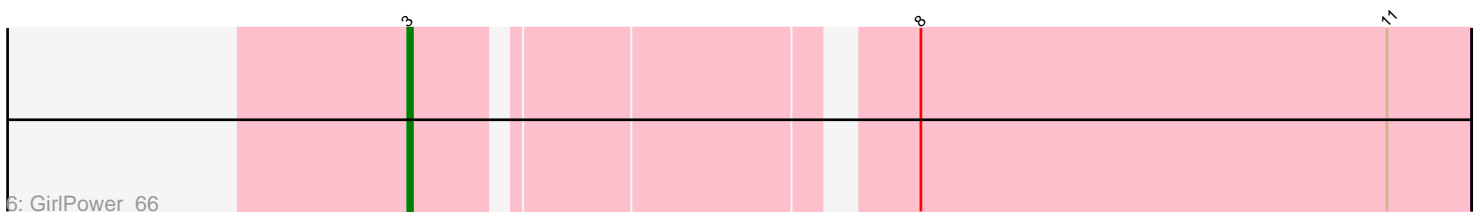
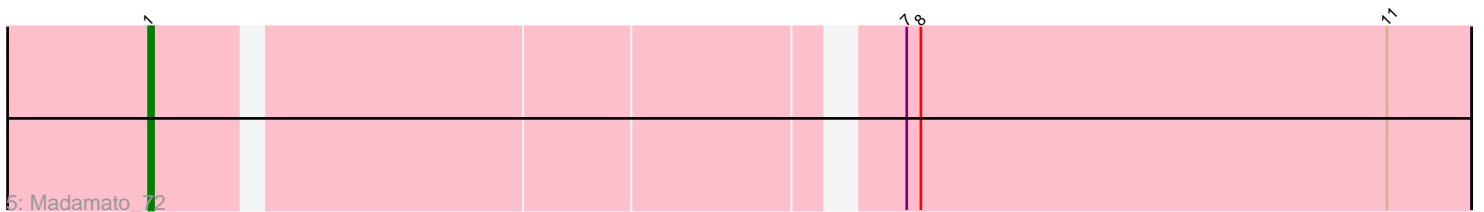
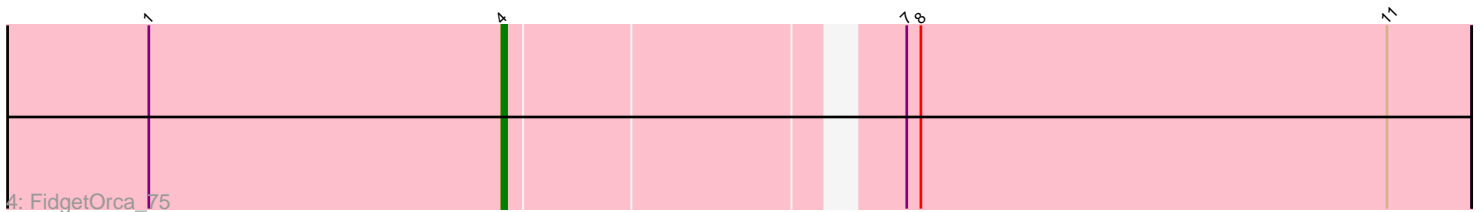
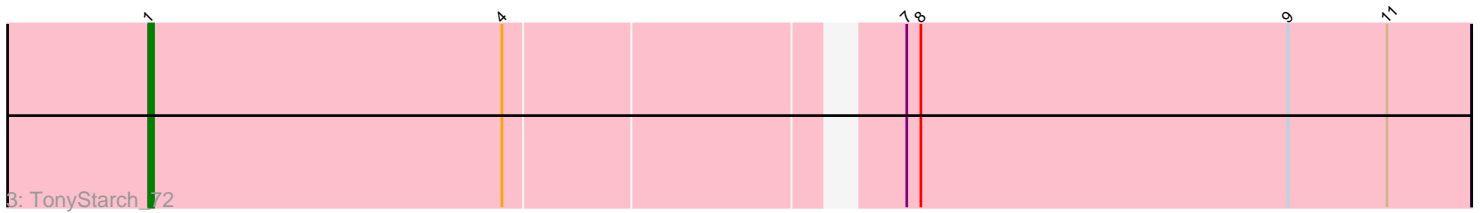
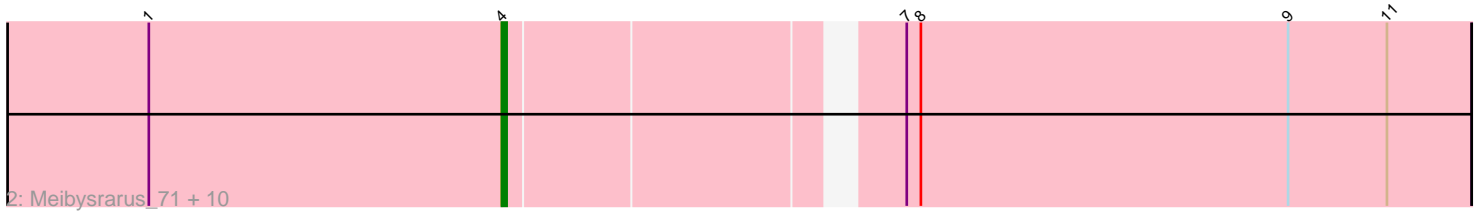


Pham 163905



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 163905 Report

This analysis was run 04/28/24 on database version 559.

Pham number 163905 has 23 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Rima\_74, Maya\_73, Jaylociraptor\_73, Esketit\_69, OlympicHelado\_75, Namu\_75, IceWarrior\_73
- Track 2 : Meibysrarus\_71, DrGrey\_67, TaidaOne\_74, Spectropatronm\_72, Soshi\_70, TieDye\_69, Popy\_69, Hoshi\_74, FrodoSwaggins\_69, Indigenous\_75, CherryBlossom\_73
- Track 3 : TonyStarch\_72
- Track 4 : FidgetOrca\_75
- Track 5 : Madamato\_72
- Track 6 : GirlPower\_66
- Track 7 : Bing\_74

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

The start number called the most often in the published annotations is 4, it was called in 19 of the 23 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- CherryBlossom\_73, DrGrey\_67, Esketit\_69, FidgetOrca\_75, FrodoSwaggins\_69, Hoshi\_74, IceWarrior\_73, Indigenous\_75, Jaylociraptor\_73, Maya\_73, Meibysrarus\_71, Namu\_75, OlympicHelado\_75, Popy\_69, Rima\_74, Soshi\_70, Spectropatronm\_72, TaidaOne\_74, TieDye\_69,

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

- TonyStarch\_72,

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

- Bing\_74, GirlPower\_66, Madamato\_72,

### **Summary by start number:**

Start 1:

- Found in 21 of 23 ( 91.3% ) of genes in pham
- Manual Annotations of this start: 2 of 23
- Called 9.5% of time when present

- Phage (with cluster) where this start called: Madamoto\_72 (BI1), TonyStarch\_72 (BI1),

Start 3:

- Found in 1 of 23 ( 4.3% ) of genes in pham
- Manual Annotations of this start: 1 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GirlPower\_66 (BI1),

Start 4:

- Found in 20 of 23 ( 87.0% ) of genes in pham
- Manual Annotations of this start: 19 of 23
- Called 95.0% of time when present
- Phage (with cluster) where this start called: CherryBlossom\_73 (BI1), DrGrey\_67 (BI1), Esketit\_69 (BI1), FidgetOrca\_75 (BI1), FrodoSwaggins\_69 (BI1), Hoshi\_74 (BI1), IceWarrior\_73 (BI1), Indigenous\_75 (BI1), Jaylociraptor\_73 (BI1), Maya\_73 (BI1), Meibysrarus\_71 (BI1), Namu\_75 (BI1), OlympicHelado\_75 (BI1), Popy\_69 (BI1), Rima\_74 (BI1), Soshi\_70 (BI1), Spectropatronm\_72 (BI1), TaidaOne\_74 (BI1), TieDye\_69 (BI1),

Start 5:

- Found in 1 of 23 ( 4.3% ) of genes in pham
- Manual Annotations of this start: 1 of 23
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bing\_74 (BI5),

### **Summary by clusters:**

There are 2 clusters represented in this pham: BI5, BI1,

Info for manual annotations of cluster BI1:

- Start number 1 was manually annotated 2 times for cluster BI1.
- Start number 3 was manually annotated 1 time for cluster BI1.
- Start number 4 was manually annotated 19 times for cluster BI1.

Info for manual annotations of cluster BI5:

- Start number 5 was manually annotated 1 time for cluster BI5.

### **Gene Information:**

Gene: Bing\_74 Start: 46307, Stop: 46495, Start Num: 5

Candidate Starts for Bing\_74:

(2, 46259), (Start: 5 @46307 has 1 MA's), (6, 46340), (10, 46472),

Gene: CherryBlossom\_73 Start: 45724, Stop: 45918, Start Num: 4

Candidate Starts for CherryBlossom\_73:

(Start: 1 @45649 has 2 MA's), (Start: 4 @45724 has 19 MA's), (7, 45799), (8, 45802), (9, 45880), (11, 45901),

Gene: DrGrey\_67 Start: 45684, Stop: 45878, Start Num: 4

Candidate Starts for DrGrey\_67:

(Start: 1 @45609 has 2 MA's), (Start: 4 @45684 has 19 MA's), (7, 45759), (8, 45762), (9, 45840), (11, 45861),

Gene: Esketit\_69 Start: 44825, Stop: 45019, Start Num: 4

Candidate Starts for Esketit\_69:

(Start: 1 @44750 has 2 MA's), (Start: 4 @44825 has 19 MA's), (7, 44900), (8, 44903), (9, 44981), (11, 45002), (12, 45005),

Gene: FidgetOrca\_75 Start: 46275, Stop: 46469, Start Num: 4

Candidate Starts for FidgetOrca\_75:

(Start: 1 @46200 has 2 MA's), (Start: 4 @46275 has 19 MA's), (7, 46350), (8, 46353), (11, 46452),

Gene: FrodoSwaggins\_69 Start: 46078, Stop: 46272, Start Num: 4

Candidate Starts for FrodoSwaggins\_69:

(Start: 1 @46003 has 2 MA's), (Start: 4 @46078 has 19 MA's), (7, 46153), (8, 46156), (9, 46234), (11, 46255),

Gene: GirlPower\_66 Start: 45611, Stop: 45820, Start Num: 3

Candidate Starts for GirlPower\_66:

(Start: 3 @45611 has 1 MA's), (8, 45704), (11, 45803),

Gene: Hoshi\_74 Start: 45888, Stop: 46082, Start Num: 4

Candidate Starts for Hoshi\_74:

(Start: 1 @45813 has 2 MA's), (Start: 4 @45888 has 19 MA's), (7, 45963), (8, 45966), (9, 46044), (11, 46065),

Gene: IceWarrior\_73 Start: 45576, Stop: 45770, Start Num: 4

Candidate Starts for IceWarrior\_73:

(Start: 1 @45501 has 2 MA's), (Start: 4 @45576 has 19 MA's), (7, 45651), (8, 45654), (9, 45732), (11, 45753), (12, 45756),

Gene: Indigenous\_75 Start: 46279, Stop: 46473, Start Num: 4

Candidate Starts for Indigenous\_75:

(Start: 1 @46204 has 2 MA's), (Start: 4 @46279 has 19 MA's), (7, 46354), (8, 46357), (9, 46435), (11, 46456),

Gene: Jaylociraptor\_73 Start: 45860, Stop: 46054, Start Num: 4

Candidate Starts for Jaylociraptor\_73:

(Start: 1 @45785 has 2 MA's), (Start: 4 @45860 has 19 MA's), (7, 45935), (8, 45938), (9, 46016), (11, 46037), (12, 46040),

Gene: Madamoto\_72 Start: 45392, Stop: 45655, Start Num: 1

Candidate Starts for Madamoto\_72:

(Start: 1 @45392 has 2 MA's), (7, 45536), (8, 45539), (11, 45638),

Gene: Maya\_73 Start: 45874, Stop: 46068, Start Num: 4

Candidate Starts for Maya\_73:

(Start: 1 @45799 has 2 MA's), (Start: 4 @45874 has 19 MA's), (7, 45949), (8, 45952), (9, 46030), (11, 46051), (12, 46054),

Gene: Meibysrarus\_71 Start: 45258, Stop: 45452, Start Num: 4

Candidate Starts for Meibysrarus\_71:

(Start: 1 @45183 has 2 MA's), (Start: 4 @45258 has 19 MA's), (7, 45333), (8, 45336), (9, 45414), (11, 45435),

Gene: Namo\_75 Start: 46238, Stop: 46432, Start Num: 4

Candidate Starts for Namo\_75:

(Start: 1 @46163 has 2 MA's), (Start: 4 @46238 has 19 MA's), (7, 46313), (8, 46316), (9, 46394), (11, 46415), (12, 46418),

Gene: OlympicHelado\_75 Start: 46350, Stop: 46544, Start Num: 4

Candidate Starts for OlympicHelado\_75:

(Start: 1 @46275 has 2 MA's), (Start: 4 @46350 has 19 MA's), (7, 46425), (8, 46428), (9, 46506), (11, 46527), (12, 46530),

Gene: Popy\_69 Start: 46078, Stop: 46272, Start Num: 4

Candidate Starts for Popy\_69:

(Start: 1 @46003 has 2 MA's), (Start: 4 @46078 has 19 MA's), (7, 46153), (8, 46156), (9, 46234), (11, 46255),

Gene: Rima\_74 Start: 46238, Stop: 46432, Start Num: 4

Candidate Starts for Rima\_74:

(Start: 1 @46163 has 2 MA's), (Start: 4 @46238 has 19 MA's), (7, 46313), (8, 46316), (9, 46394), (11, 46415), (12, 46418),

Gene: Soshi\_70 Start: 45943, Stop: 46137, Start Num: 4

Candidate Starts for Soshi\_70:

(Start: 1 @45868 has 2 MA's), (Start: 4 @45943 has 19 MA's), (7, 46018), (8, 46021), (9, 46099), (11, 46120),

Gene: Spectropatronm\_72 Start: 45867, Stop: 46061, Start Num: 4

Candidate Starts for Spectropatronm\_72:

(Start: 1 @45792 has 2 MA's), (Start: 4 @45867 has 19 MA's), (7, 45942), (8, 45945), (9, 46023), (11, 46044),

Gene: TaidaOne\_74 Start: 46763, Stop: 46957, Start Num: 4

Candidate Starts for TaidaOne\_74:

(Start: 1 @46688 has 2 MA's), (Start: 4 @46763 has 19 MA's), (7, 46838), (8, 46841), (9, 46919), (11, 46940),

Gene: TieDye\_69 Start: 45188, Stop: 45382, Start Num: 4

Candidate Starts for TieDye\_69:

(Start: 1 @45113 has 2 MA's), (Start: 4 @45188 has 19 MA's), (7, 45263), (8, 45266), (9, 45344), (11, 45365),

Gene: TonyStarch\_72 Start: 45555, Stop: 45824, Start Num: 1

Candidate Starts for TonyStarch\_72:

(Start: 1 @45555 has 2 MA's), (Start: 4 @45630 has 19 MA's), (7, 45705), (8, 45708), (9, 45786), (11, 45807),