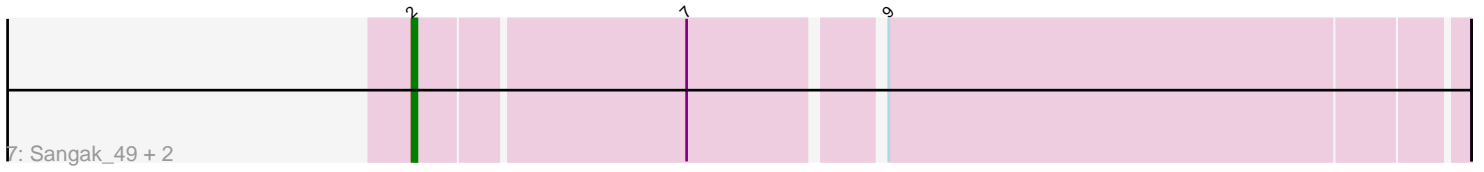
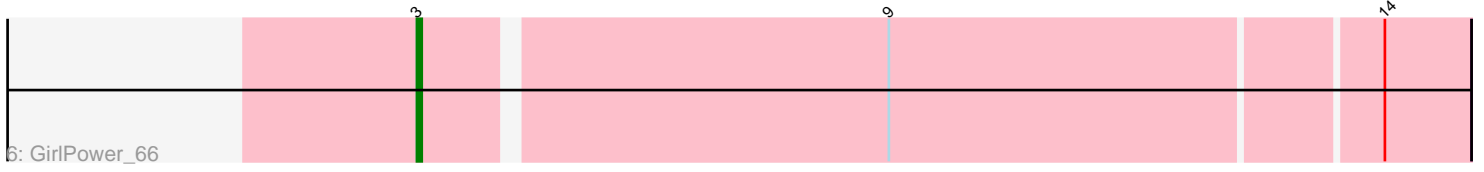
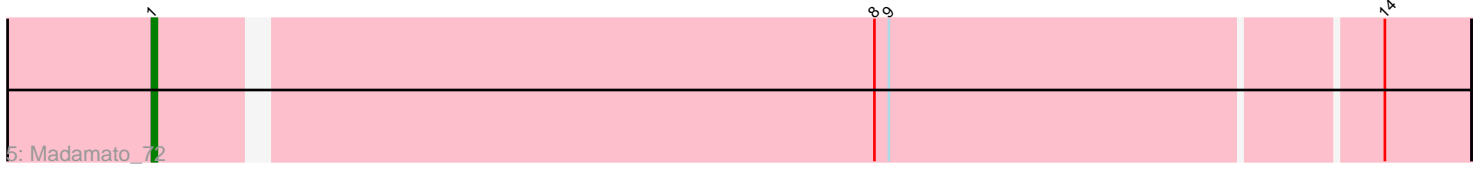
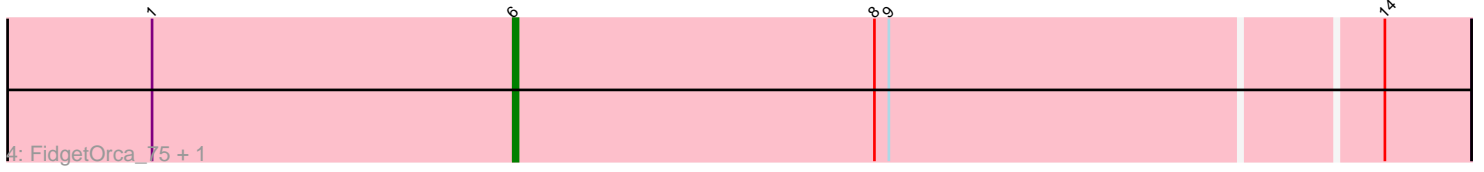
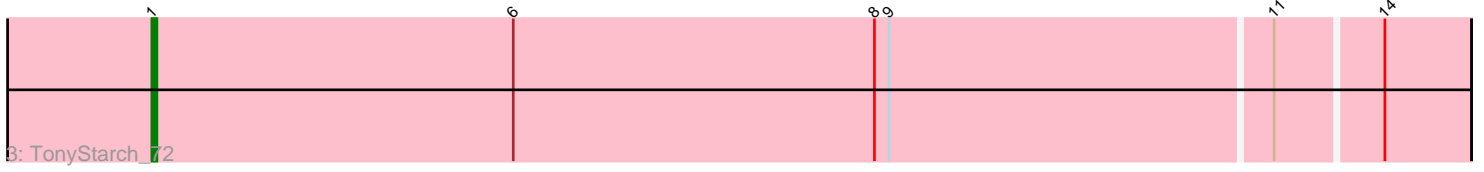
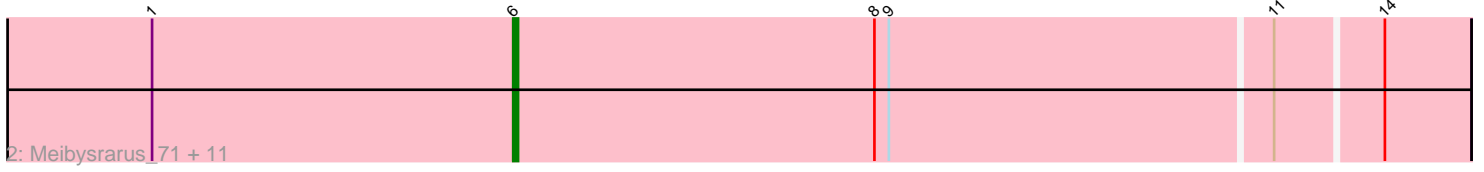
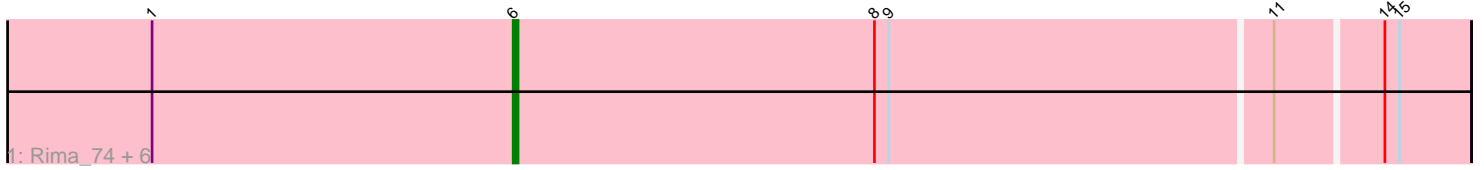


Pham 294984



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 294984 Report

This analysis was run 04/18/26 on database version 643.

Pham number 294984 has 29 members, 1 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, Espio\_69, 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, HazuAndZazu\_69
- Track 5 : Madamato\_72
- Track 6 : GirlPower\_66
- Track 7 : Sangak\_49, Doxi13\_51, RavenPuff\_50
- Track 8 : Ditters\_48
- Track 9 : Scap1\_47

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

The start number called the most often in the published annotations is 6, it was called in 21 of the 28 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- CherryBlossom\_73, DrGrey\_67, Esketit\_69, Espio\_69, FidgetOrca\_75, FrodoSwaggins\_69, HazuAndZazu\_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:

- Ditters\_48, Doxi13\_51, GirlPower\_66, Madamato\_72, RavenPuff\_50, Sangak\_49, Scap1\_47,

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

Start 1:

- Found in 23 of 29 ( 79.3% ) of genes in pham
- Manual Annotations of this start: 2 of 28
- Called 8.7% of time when present
- Phage (with cluster) where this start called: Madamoto\_72 (BI1), TonyStarch\_72 (BI1),

#### Start 2:

- Found in 3 of 29 ( 10.3% ) of genes in pham
- Manual Annotations of this start: 2 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Doxi13\_51 (BI2), RavenPuff\_50 (BI2), Sangak\_49 (BI2),

#### Start 3:

- Found in 1 of 29 ( 3.4% ) of genes in pham
- Manual Annotations of this start: 1 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: GirlPower\_66 (BI1),

#### Start 4:

- Found in 2 of 29 ( 6.9% ) of genes in pham
- Manual Annotations of this start: 2 of 28
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Ditters\_48 (BI2), Scap1\_47 (BI2),

#### Start 6:

- Found in 22 of 29 ( 75.9% ) of genes in pham
- Manual Annotations of this start: 21 of 28
- Called 95.5% of time when present
- Phage (with cluster) where this start called: CherryBlossom\_73 (BI1), DrGrey\_67 (BI1), Esketit\_69 (BI1), Espio\_69 (BI1), FidgetOrca\_75 (BI1), FrodoSwaggins\_69 (BI1), HazuAndZazu\_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),

### **Summary by clusters:**

There are 2 clusters represented in this pham: BI2, 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 6 was manually annotated 21 times for cluster BI1.

Info for manual annotations of cluster BI2:

- Start number 2 was manually annotated 2 times for cluster BI2.
- Start number 4 was manually annotated 2 times for cluster BI2.

### **Gene Information:**

Gene: CherryBlossom\_73 Start: 45724, Stop: 45918, Start Num: 6

Candidate Starts for CherryBlossom\_73:

(Start: 1 @45649 has 2 MA's), (Start: 6 @45724 has 21 MA's), (8, 45799), (9, 45802), (11, 45880), (14, 45901),

Gene: Ditters\_48 Start: 36754, Stop: 36954, Start Num: 4

Candidate Starts for Ditters\_48:

(Start: 4 @36754 has 2 MA's), (5, 36757), (9, 36835), (10, 36856), (12, 36916), (13, 36934),

Gene: Doxi13\_51 Start: 36432, Stop: 36638, Start Num: 2

Candidate Starts for Doxi13\_51:

(Start: 2 @36432 has 2 MA's), (7, 36486), (9, 36522),

Gene: DrGrey\_67 Start: 45684, Stop: 45878, Start Num: 6

Candidate Starts for DrGrey\_67:

(Start: 1 @45609 has 2 MA's), (Start: 6 @45684 has 21 MA's), (8, 45759), (9, 45762), (11, 45840), (14, 45861),

Gene: Esketit\_69 Start: 44825, Stop: 45019, Start Num: 6

Candidate Starts for Esketit\_69:

(Start: 1 @44750 has 2 MA's), (Start: 6 @44825 has 21 MA's), (8, 44900), (9, 44903), (11, 44981), (14, 45002), (15, 45005),

Gene: Espio\_69 Start: 46079, Stop: 46273, Start Num: 6

Candidate Starts for Espio\_69:

(Start: 1 @46004 has 2 MA's), (Start: 6 @46079 has 21 MA's), (8, 46154), (9, 46157), (11, 46235), (14, 46256),

Gene: FidgetOrca\_75 Start: 46275, Stop: 46469, Start Num: 6

Candidate Starts for FidgetOrca\_75:

(Start: 1 @46200 has 2 MA's), (Start: 6 @46275 has 21 MA's), (8, 46350), (9, 46353), (14, 46452),

Gene: FrodoSwaggins\_69 Start: 46078, Stop: 46272, Start Num: 6

Candidate Starts for FrodoSwaggins\_69:

(Start: 1 @46003 has 2 MA's), (Start: 6 @46078 has 21 MA's), (8, 46153), (9, 46156), (11, 46234), (14, 46255),

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

Candidate Starts for GirlPower\_66:

(Start: 3 @45611 has 1 MA's), (9, 45704), (14, 45803),

Gene: HazuAndZazu\_69 Start: 45746, Stop: 45940, Start Num: 6

Candidate Starts for HazuAndZazu\_69:

(Start: 1 @45671 has 2 MA's), (Start: 6 @45746 has 21 MA's), (8, 45821), (9, 45824), (14, 45923),

Gene: Hoshi\_74 Start: 45888, Stop: 46082, Start Num: 6

Candidate Starts for Hoshi\_74:

(Start: 1 @45813 has 2 MA's), (Start: 6 @45888 has 21 MA's), (8, 45963), (9, 45966), (11, 46044), (14, 46065),

Gene: IceWarrior\_73 Start: 45576, Stop: 45770, Start Num: 6

Candidate Starts for IceWarrior\_73:

(Start: 1 @45501 has 2 MA's), (Start: 6 @45576 has 21 MA's), (8, 45651), (9, 45654), (11, 45732), (14, 45753), (15, 45756),

Gene: Indigenous\_75 Start: 46279, Stop: 46473, Start Num: 6

Candidate Starts for Indigenous\_75:

(Start: 1 @46204 has 2 MA's), (Start: 6 @46279 has 21 MA's), (8, 46354), (9, 46357), (11, 46435), (14, 46456),

Gene: Jaylociraptor\_73 Start: 45860, Stop: 46054, Start Num: 6

Candidate Starts for Jaylociraptor\_73:

(Start: 1 @45785 has 2 MA's), (Start: 6 @45860 has 21 MA's), (8, 45935), (9, 45938), (11, 46016), (14, 46037), (15, 46040),

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

Candidate Starts for Madamoto\_72:

(Start: 1 @45392 has 2 MA's), (8, 45536), (9, 45539), (14, 45638),

Gene: Maya\_73 Start: 45874, Stop: 46068, Start Num: 6

Candidate Starts for Maya\_73:

(Start: 1 @45799 has 2 MA's), (Start: 6 @45874 has 21 MA's), (8, 45949), (9, 45952), (11, 46030), (14, 46051), (15, 46054),

Gene: Meibysrarus\_71 Start: 45258, Stop: 45452, Start Num: 6

Candidate Starts for Meibysrarus\_71:

(Start: 1 @45183 has 2 MA's), (Start: 6 @45258 has 21 MA's), (8, 45333), (9, 45336), (11, 45414), (14, 45435),

Gene: Namo\_75 Start: 46238, Stop: 46432, Start Num: 6

Candidate Starts for Namo\_75:

(Start: 1 @46163 has 2 MA's), (Start: 6 @46238 has 21 MA's), (8, 46313), (9, 46316), (11, 46394), (14, 46415), (15, 46418),

Gene: OlympicHelado\_75 Start: 46350, Stop: 46544, Start Num: 6

Candidate Starts for OlympicHelado\_75:

(Start: 1 @46275 has 2 MA's), (Start: 6 @46350 has 21 MA's), (8, 46425), (9, 46428), (11, 46506), (14, 46527), (15, 46530),

Gene: Popy\_69 Start: 46078, Stop: 46272, Start Num: 6

Candidate Starts for Popy\_69:

(Start: 1 @46003 has 2 MA's), (Start: 6 @46078 has 21 MA's), (8, 46153), (9, 46156), (11, 46234), (14, 46255),

Gene: RavenPuff\_50 Start: 36428, Stop: 36634, Start Num: 2

Candidate Starts for RavenPuff\_50:

(Start: 2 @36428 has 2 MA's), (7, 36482), (9, 36518),

Gene: Rima\_74 Start: 46238, Stop: 46432, Start Num: 6

Candidate Starts for Rima\_74:

(Start: 1 @46163 has 2 MA's), (Start: 6 @46238 has 21 MA's), (8, 46313), (9, 46316), (11, 46394), (14, 46415), (15, 46418),

Gene: Sangak\_49 Start: 35986, Stop: 36192, Start Num: 2

Candidate Starts for Sangak\_49:

(Start: 2 @35986 has 2 MA's), (7, 36040), (9, 36076),

Gene: Scap1\_47 Start: 35844, Stop: 36044, Start Num: 4

Candidate Starts for Scap1\_47:

(Start: 4 @35844 has 2 MA's), (5, 35847), (9, 35925), (10, 35946), (13, 36024),

Gene: Soshi\_70 Start: 45943, Stop: 46137, Start Num: 6

Candidate Starts for Soshi\_70:

(Start: 1 @45868 has 2 MA's), (Start: 6 @45943 has 21 MA's), (8, 46018), (9, 46021), (11, 46099), (14, 46120),

Gene: Spectropatronm\_72 Start: 45867, Stop: 46061, Start Num: 6

Candidate Starts for Spectropatronm\_72:

(Start: 1 @45792 has 2 MA's), (Start: 6 @45867 has 21 MA's), (8, 45942), (9, 45945), (11, 46023), (14, 46044),

Gene: TaidaOne\_74 Start: 46763, Stop: 46957, Start Num: 6

Candidate Starts for TaidaOne\_74:

(Start: 1 @46688 has 2 MA's), (Start: 6 @46763 has 21 MA's), (8, 46838), (9, 46841), (11, 46919), (14, 46940),

Gene: TieDye\_69 Start: 45188, Stop: 45382, Start Num: 6

Candidate Starts for TieDye\_69:

(Start: 1 @45113 has 2 MA's), (Start: 6 @45188 has 21 MA's), (8, 45263), (9, 45266), (11, 45344), (14, 45365),

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

Candidate Starts for TonyStarch\_72:

(Start: 1 @45555 has 2 MA's), (Start: 6 @45630 has 21 MA's), (8, 45705), (9, 45708), (11, 45786), (14, 45807),