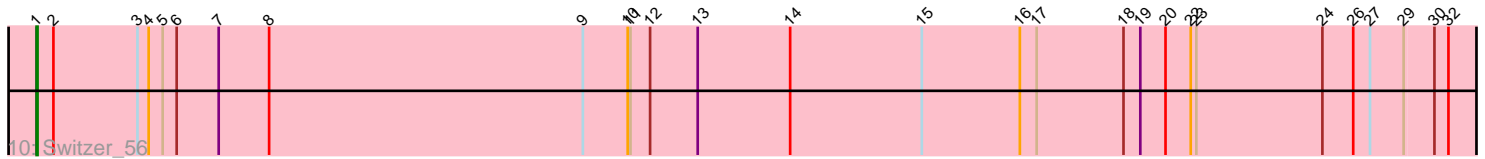
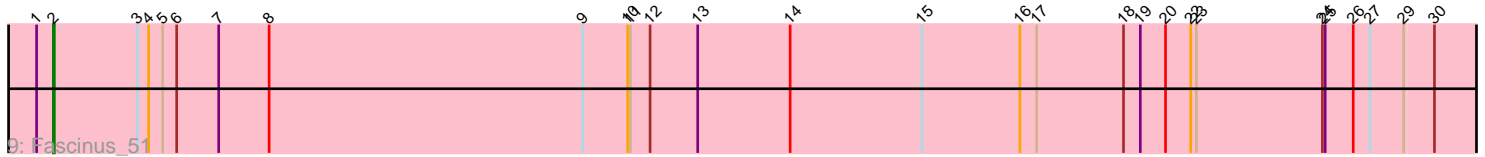
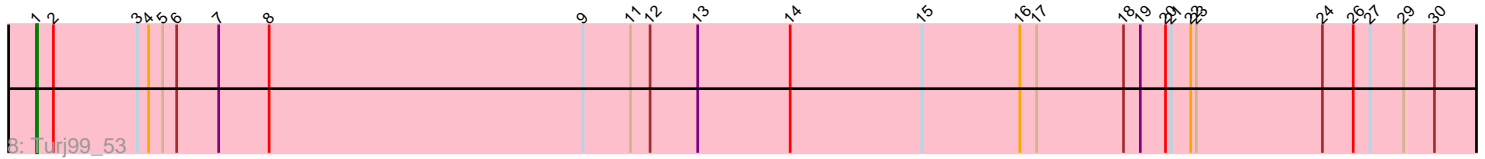
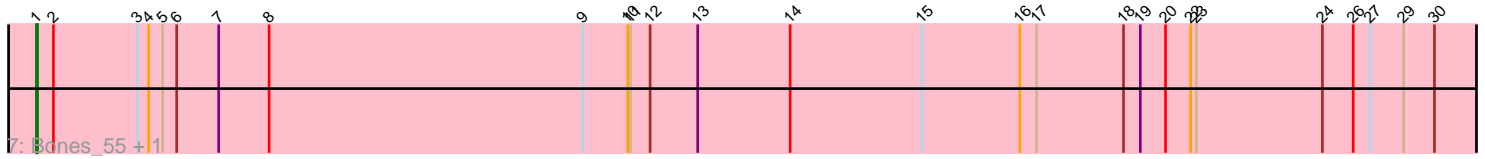
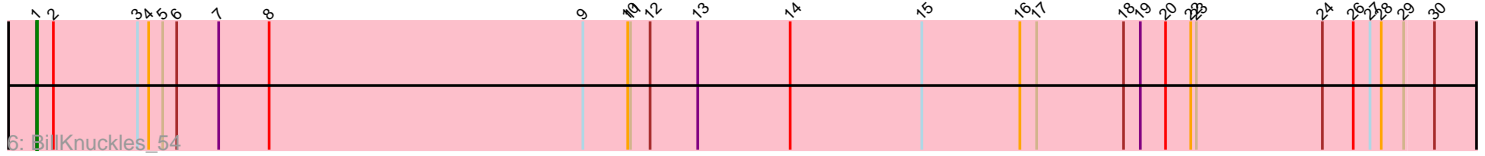
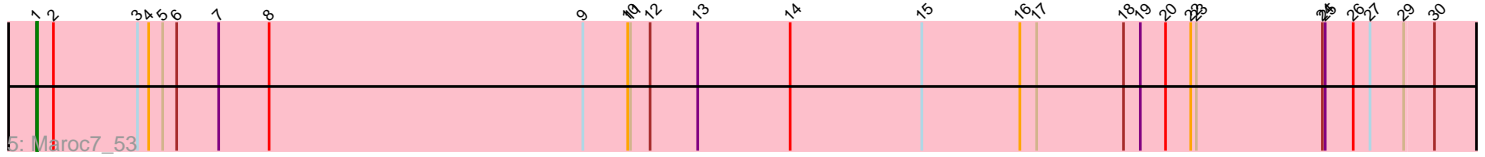
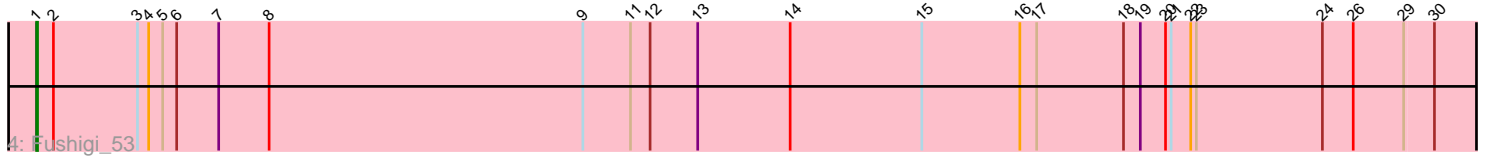
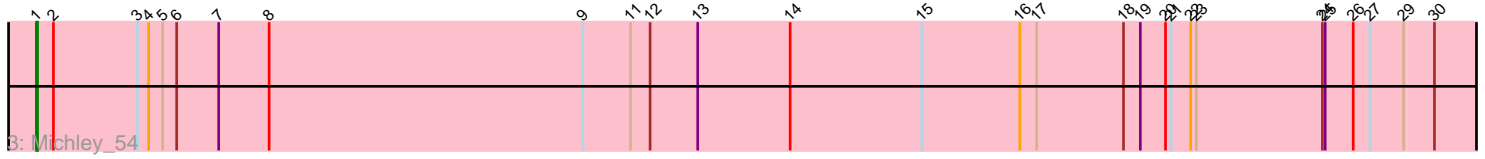
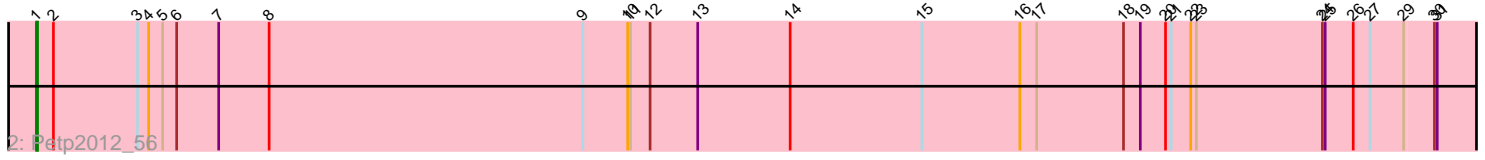
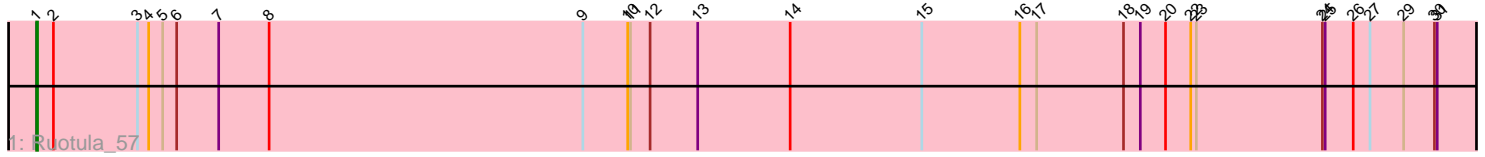


# Pham 106776



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 106776 Report

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

Pham number 106776 has 11 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Ruotula\_57
- Track 2 : Petp2012\_56
- Track 3 : Michley\_54
- Track 4 : Fushigi\_53
- Track 5 : Maroc7\_53
- Track 6 : BillKnuckles\_54
- Track 7 : Bones\_55, Bigfoot\_50
- Track 8 : Turj99\_53
- Track 9 : Fascinus\_51
- Track 10 : Switzer\_56

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

The start number called the most often in the published annotations is 1, it was called in 10 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bigfoot\_50, BillKnuckles\_54, Bones\_55, Fushigi\_53, Maroc7\_53, Michley\_54, Petp2012\_56, Ruotula\_57, Switzer\_56, Turj99\_53,

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

- Fascinus\_51,

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

- 

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

Start 1:

- Found in 11 of 11 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 10 of 11
- Called 90.9% of time when present
- Phage (with cluster) where this start called: Bigfoot\_50 (A1), BillKnuckles\_54 (A1), Bones\_55 (A1), Fushigi\_53 (A1), Maroc7\_53 (A1), Michley\_54 (A1), Petp2012\_56

(A1), Ruotula\_57 (A1), Switzer\_56 (A1), Turj99\_53 (A1),

Start 2:

- Found in 11 of 11 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 9.1% of time when present
- Phage (with cluster) where this start called: Fascinus\_51 (A1),

### Summary by clusters:

There is one cluster represented in this pham: A1

Info for manual annotations of cluster A1:

- Start number 1 was manually annotated 10 times for cluster A1.
- Start number 2 was manually annotated 1 time for cluster A1.

### Gene Information:

Gene: Bigfoot\_50 Start: 38803, Stop: 37262, Start Num: 1

Candidate Starts for Bigfoot\_50:

(Start: 1 @38803 has 10 MA's), (Start: 2 @38785 has 1 MA's), (3, 38695), (4, 38683), (5, 38668), (6, 38653), (7, 38608), (8, 38554), (9, 38218), (10, 38170), (11, 38167), (12, 38146), (13, 38095), (14, 37996), (15, 37855), (16, 37750), (17, 37732), (18, 37639), (19, 37621), (20, 37594), (22, 37567), (23, 37561), (24, 37426), (26, 37393), (27, 37375), (29, 37339), (30, 37309),

Gene: BillKnuckles\_54 Start: 40699, Stop: 39158, Start Num: 1

Candidate Starts for BillKnuckles\_54:

(Start: 1 @40699 has 10 MA's), (Start: 2 @40681 has 1 MA's), (3, 40591), (4, 40579), (5, 40564), (6, 40549), (7, 40504), (8, 40450), (9, 40114), (10, 40066), (11, 40063), (12, 40042), (13, 39991), (14, 39892), (15, 39751), (16, 39646), (17, 39628), (18, 39535), (19, 39517), (20, 39490), (22, 39463), (23, 39457), (24, 39322), (26, 39289), (27, 39271), (28, 39259), (29, 39235), (30, 39205),

Gene: Bones\_55 Start: 40260, Stop: 38719, Start Num: 1

Candidate Starts for Bones\_55:

(Start: 1 @40260 has 10 MA's), (Start: 2 @40242 has 1 MA's), (3, 40152), (4, 40140), (5, 40125), (6, 40110), (7, 40065), (8, 40011), (9, 39675), (10, 39627), (11, 39624), (12, 39603), (13, 39552), (14, 39453), (15, 39312), (16, 39207), (17, 39189), (18, 39096), (19, 39078), (20, 39051), (22, 39024), (23, 39018), (24, 38883), (26, 38850), (27, 38832), (29, 38796), (30, 38766),

Gene: Fascinus\_51 Start: 39299, Stop: 37776, Start Num: 2

Candidate Starts for Fascinus\_51:

(Start: 1 @39317 has 10 MA's), (Start: 2 @39299 has 1 MA's), (3, 39209), (4, 39197), (5, 39182), (6, 39167), (7, 39122), (8, 39068), (9, 38732), (10, 38684), (11, 38681), (12, 38660), (13, 38609), (14, 38510), (15, 38369), (16, 38264), (17, 38246), (18, 38153), (19, 38135), (20, 38108), (22, 38081), (23, 38075), (24, 37940), (25, 37937), (26, 37907), (27, 37889), (29, 37853), (30, 37823),

Gene: Fushigi\_53 Start: 37851, Stop: 36310, Start Num: 1

Candidate Starts for Fushigi\_53:

(Start: 1 @37851 has 10 MA's), (Start: 2 @37833 has 1 MA's), (3, 37743), (4, 37731), (5, 37716), (6, 37701), (7, 37656), (8, 37602), (9, 37266), (11, 37215), (12, 37194), (13, 37143), (14, 37044), (15, 36903), (16, 36798), (17, 36780), (18, 36687), (19, 36669), (20, 36642), (21, 36636), (22, 36615), (23,

36609), (24, 36474), (26, 36441), (29, 36387), (30, 36357),

Gene: Maroc7\_53 Start: 39626, Stop: 38085, Start Num: 1

Candidate Starts for Maroc7\_53:

(Start: 1 @39626 has 10 MA's), (Start: 2 @39608 has 1 MA's), (3, 39518), (4, 39506), (5, 39491), (6, 39476), (7, 39431), (8, 39377), (9, 39041), (10, 38993), (11, 38990), (12, 38969), (13, 38918), (14, 38819), (15, 38678), (16, 38573), (17, 38555), (18, 38462), (19, 38444), (20, 38417), (22, 38390), (23, 38384), (24, 38249), (25, 38246), (26, 38216), (27, 38198), (29, 38162), (30, 38132),

Gene: Michley\_54 Start: 39305, Stop: 37764, Start Num: 1

Candidate Starts for Michley\_54:

(Start: 1 @39305 has 10 MA's), (Start: 2 @39287 has 1 MA's), (3, 39197), (4, 39185), (5, 39170), (6, 39155), (7, 39110), (8, 39056), (9, 38720), (11, 38669), (12, 38648), (13, 38597), (14, 38498), (15, 38357), (16, 38252), (17, 38234), (18, 38141), (19, 38123), (20, 38096), (21, 38090), (22, 38069), (23, 38063), (24, 37928), (25, 37925), (26, 37895), (27, 37877), (29, 37841), (30, 37811),

Gene: Petp2012\_56 Start: 40208, Stop: 38667, Start Num: 1

Candidate Starts for Petp2012\_56:

(Start: 1 @40208 has 10 MA's), (Start: 2 @40190 has 1 MA's), (3, 40100), (4, 40088), (5, 40073), (6, 40058), (7, 40013), (8, 39959), (9, 39623), (10, 39575), (11, 39572), (12, 39551), (13, 39500), (14, 39401), (15, 39260), (16, 39155), (17, 39137), (18, 39044), (19, 39026), (20, 38999), (21, 38993), (22, 38972), (23, 38966), (24, 38831), (25, 38828), (26, 38798), (27, 38780), (29, 38744), (30, 38714), (31, 38711),

Gene: Ruotula\_57 Start: 41344, Stop: 39800, Start Num: 1

Candidate Starts for Ruotula\_57:

(Start: 1 @41344 has 10 MA's), (Start: 2 @41326 has 1 MA's), (3, 41236), (4, 41224), (5, 41209), (6, 41194), (7, 41149), (8, 41095), (9, 40759), (10, 40711), (11, 40708), (12, 40687), (13, 40636), (14, 40537), (15, 40396), (16, 40291), (17, 40273), (18, 40180), (19, 40162), (20, 40135), (22, 40108), (23, 40102), (24, 39967), (25, 39964), (26, 39934), (27, 39916), (29, 39880), (30, 39847), (31, 39844),

Gene: Switzer\_56 Start: 40935, Stop: 39394, Start Num: 1

Candidate Starts for Switzer\_56:

(Start: 1 @40935 has 10 MA's), (Start: 2 @40917 has 1 MA's), (3, 40827), (4, 40815), (5, 40800), (6, 40785), (7, 40740), (8, 40686), (9, 40350), (10, 40302), (11, 40299), (12, 40278), (13, 40227), (14, 40128), (15, 39987), (16, 39882), (17, 39864), (18, 39771), (19, 39753), (20, 39726), (22, 39699), (23, 39693), (24, 39558), (26, 39525), (27, 39507), (29, 39471), (30, 39441), (32, 39426),

Gene: Turj99\_53 Start: 40268, Stop: 38694, Start Num: 1

Candidate Starts for Turj99\_53:

(Start: 1 @40268 has 10 MA's), (Start: 2 @40250 has 1 MA's), (3, 40160), (4, 40148), (5, 40133), (6, 40118), (7, 40073), (8, 40019), (9, 39683), (11, 39632), (12, 39611), (13, 39560), (14, 39461), (15, 39320), (16, 39215), (17, 39197), (18, 39104), (19, 39086), (20, 39059), (21, 39053), (22, 39032), (23, 39026), (24, 38891), (26, 38858), (27, 38840), (29, 38804), (30, 38774),