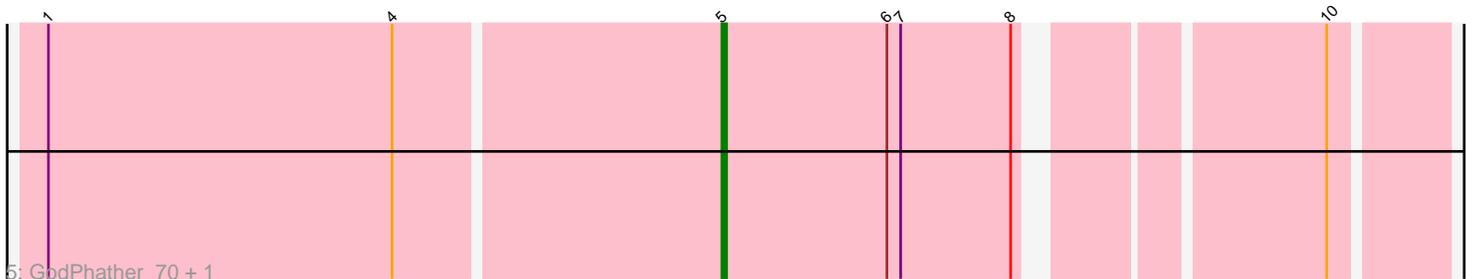
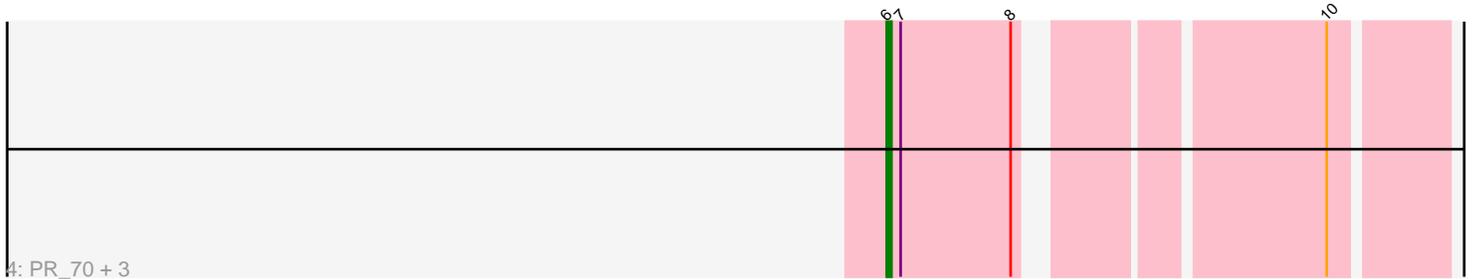
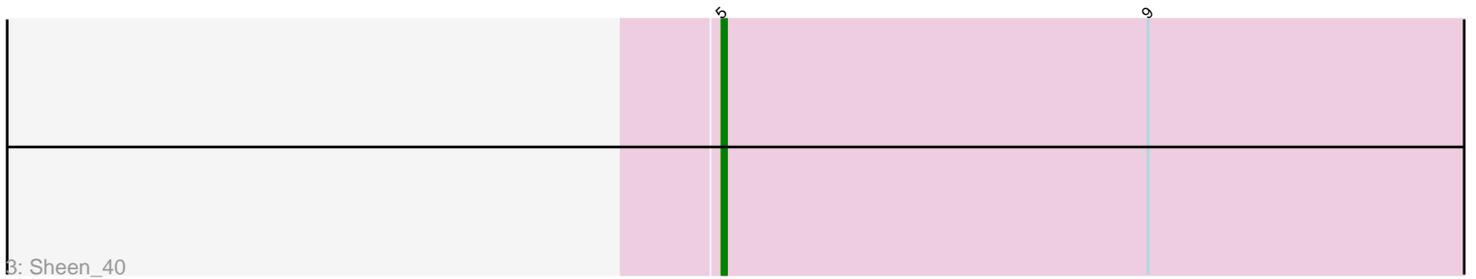
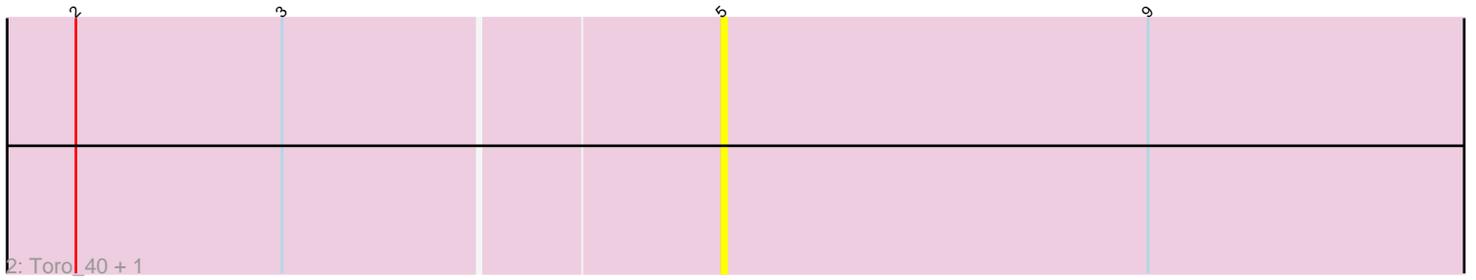
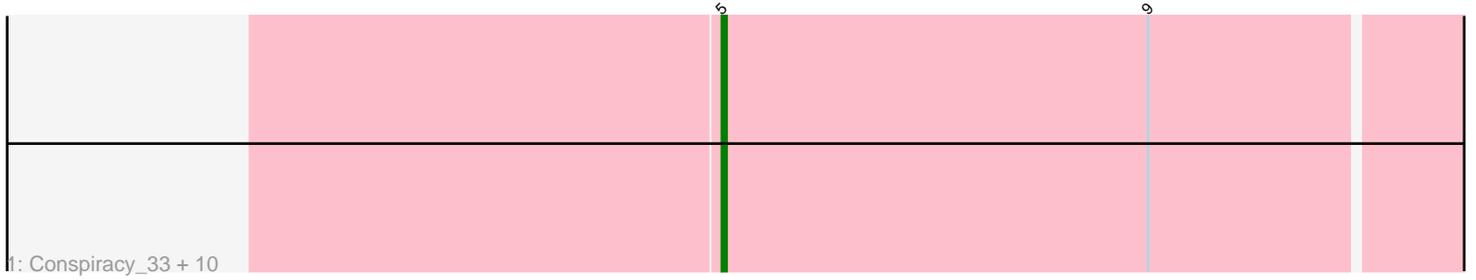


Pham 291559



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 291559 Report

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

Pham number 291559 has 20 members, 2 are drafts.

Phages represented in each track:

- Track 1 : Conspiracy\_33, Jovo\_33, AgentM\_33, PickleBack\_33, Bluefalcon\_32, Phlorence\_33, Lev2\_33, Tiger\_33, Aragog\_33, Discoknowium\_33, ForGetIt\_33
- Track 2 : Toro\_40, FlyCatcher\_42
- Track 3 : Sheen\_40
- Track 4 : PR\_70, Cepens\_70, D12\_69, Megabear\_68
- Track 5 : GodPhather\_70, Argie\_72

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

The start number called the most often in the published annotations is 5, it was called in 14 of the 18 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- AgentM\_33, Aragog\_33, Argie\_72, Bluefalcon\_32, Conspiracy\_33, Discoknowium\_33, FlyCatcher\_42, ForGetIt\_33, GodPhather\_70, Jovo\_33, Lev2\_33, Phlorence\_33, PickleBack\_33, Sheen\_40, Tiger\_33, Toro\_40,

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

- 

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

- Cepens\_70, D12\_69, Megabear\_68, PR\_70,

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

Start 5:

- Found in 16 of 20 ( 80.0% ) of genes in pham
- Manual Annotations of this start: 14 of 18
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AgentM\_33 (A5), Aragog\_33 (A5), Argie\_72 (W), Bluefalcon\_32 (A5), Conspiracy\_33 (A5), Discoknowium\_33 (A5), FlyCatcher\_42 (A7), ForGetIt\_33 (A5), GodPhather\_70 (W), Jovo\_33 (A5), Lev2\_33 (A5), Phlorence\_33 (A5), PickleBack\_33 (A5), Sheen\_40 (A7), Tiger\_33 (A5), Toro\_40 (A7),

Start 6:

- Found in 6 of 20 ( 30.0% ) of genes in pham
- Manual Annotations of this start: 4 of 18
- Called 66.7% of time when present
- Phage (with cluster) where this start called: Cepens\_70 (W), D12\_69 (W), Megabear\_68 (W), PR\_70 (W),

### **Summary by clusters:**

There are 3 clusters represented in this pham: A5, W, A7,

Info for manual annotations of cluster A5:

- Start number 5 was manually annotated 11 times for cluster A5.

Info for manual annotations of cluster A7:

- Start number 5 was manually annotated 1 time for cluster A7.

Info for manual annotations of cluster W:

- Start number 5 was manually annotated 2 times for cluster W.
- Start number 6 was manually annotated 4 times for cluster W.

### **Gene Information:**

Gene: AgentM\_33 Start: 27221, Stop: 27048, Start Num: 5

Candidate Starts for AgentM\_33:

(Start: 5 @27221 has 14 MA's), (9, 27128),

Gene: Aragog\_33 Start: 27251, Stop: 27078, Start Num: 5

Candidate Starts for Aragog\_33:

(Start: 5 @27251 has 14 MA's), (9, 27158),

Gene: Argie\_72 Start: 51591, Stop: 51734, Start Num: 5

Candidate Starts for Argie\_72:

(1, 51447), (4, 51522), (Start: 5 @51591 has 14 MA's), (Start: 6 @51627 has 4 MA's), (7, 51630), (8, 51654), (10, 51711),

Gene: Bluefalcon\_32 Start: 27310, Stop: 27137, Start Num: 5

Candidate Starts for Bluefalcon\_32:

(Start: 5 @27310 has 14 MA's), (9, 27217),

Gene: Cepens\_70 Start: 50436, Stop: 50543, Start Num: 6

Candidate Starts for Cepens\_70:

(Start: 6 @50436 has 4 MA's), (7, 50439), (8, 50463), (10, 50520),

Gene: Conspiracy\_33 Start: 27051, Stop: 26878, Start Num: 5

Candidate Starts for Conspiracy\_33:

(Start: 5 @27051 has 14 MA's), (9, 26958),

Gene: D12\_69 Start: 51071, Stop: 51178, Start Num: 6

Candidate Starts for D12\_69:

(Start: 6 @51071 has 4 MA's), (7, 51074), (8, 51098), (10, 51155),

Gene: Discoknowium\_33 Start: 27260, Stop: 27087, Start Num: 5

Candidate Starts for Discoknowium\_33:

(Start: 5 @27260 has 14 MA's), (9, 27167),

Gene: FlyCatcher\_42 Start: 30517, Stop: 30341, Start Num: 5

Candidate Starts for FlyCatcher\_42:

(2, 30655), (3, 30610), (Start: 5 @30517 has 14 MA's), (9, 30424),

Gene: ForGetIt\_33 Start: 27076, Stop: 26903, Start Num: 5

Candidate Starts for ForGetIt\_33:

(Start: 5 @27076 has 14 MA's), (9, 26983),

Gene: GodPhather\_70 Start: 51045, Stop: 51188, Start Num: 5

Candidate Starts for GodPhather\_70:

(1, 50901), (4, 50976), (Start: 5 @51045 has 14 MA's), (Start: 6 @51081 has 4 MA's), (7, 51084), (8, 51108), (10, 51165),

Gene: Jovo\_33 Start: 27332, Stop: 27159, Start Num: 5

Candidate Starts for Jovo\_33:

(Start: 5 @27332 has 14 MA's), (9, 27239),

Gene: Lev2\_33 Start: 26964, Stop: 26791, Start Num: 5

Candidate Starts for Lev2\_33:

(Start: 5 @26964 has 14 MA's), (9, 26871),

Gene: Megabear\_68 Start: 50357, Stop: 50464, Start Num: 6

Candidate Starts for Megabear\_68:

(Start: 6 @50357 has 4 MA's), (7, 50360), (8, 50384), (10, 50441),

Gene: PR\_70 Start: 51048, Stop: 51155, Start Num: 6

Candidate Starts for PR\_70:

(Start: 6 @51048 has 4 MA's), (7, 51051), (8, 51075), (10, 51132),

Gene: Phlorence\_33 Start: 27251, Stop: 27078, Start Num: 5

Candidate Starts for Phlorence\_33:

(Start: 5 @27251 has 14 MA's), (9, 27158),

Gene: PickleBack\_33 Start: 26965, Stop: 26792, Start Num: 5

Candidate Starts for PickleBack\_33:

(Start: 5 @26965 has 14 MA's), (9, 26872),

Gene: Sheen\_40 Start: 30590, Stop: 30414, Start Num: 5

Candidate Starts for Sheen\_40:

(Start: 5 @30590 has 14 MA's), (9, 30497),

Gene: Tiger\_33 Start: 27042, Stop: 26869, Start Num: 5

Candidate Starts for Tiger\_33:

(Start: 5 @27042 has 14 MA's), (9, 26949),

Gene: Toro\_40 Start: 30517, Stop: 30341, Start Num: 5

Candidate Starts for Toro\_40:

(2, 30655), (3, 30610), (Start: 5 @30517 has 14 MA's), (9, 30424),