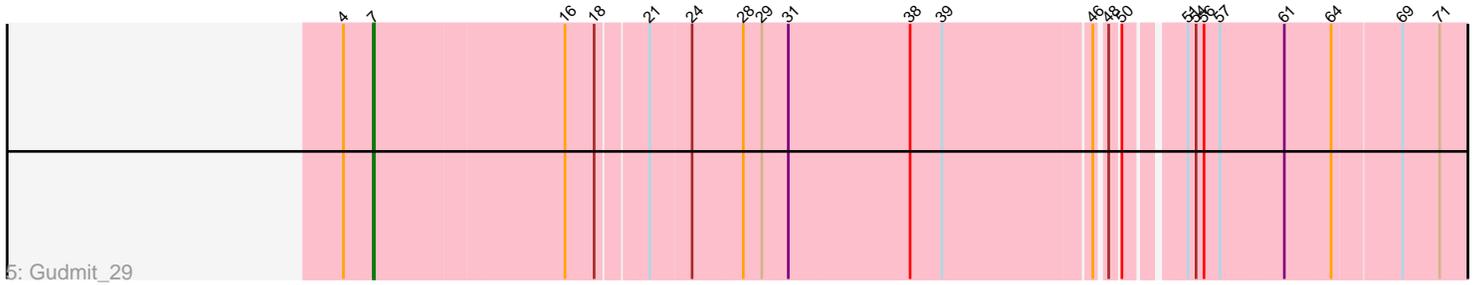
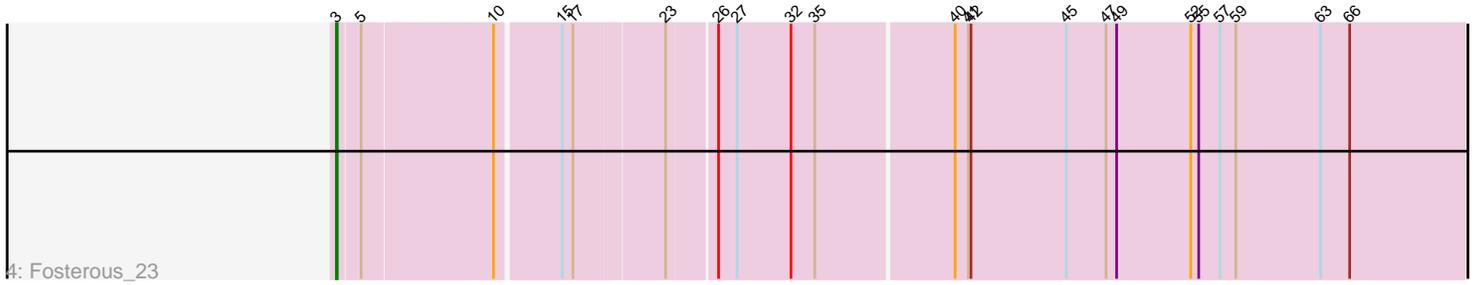
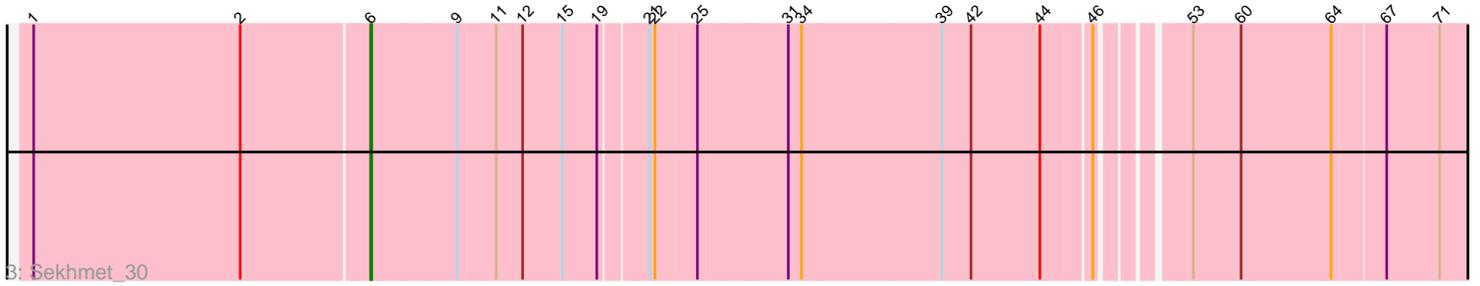
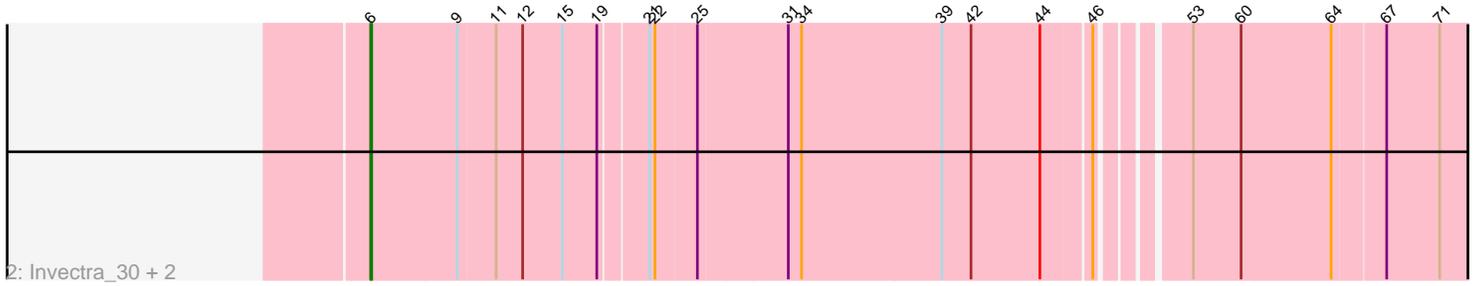
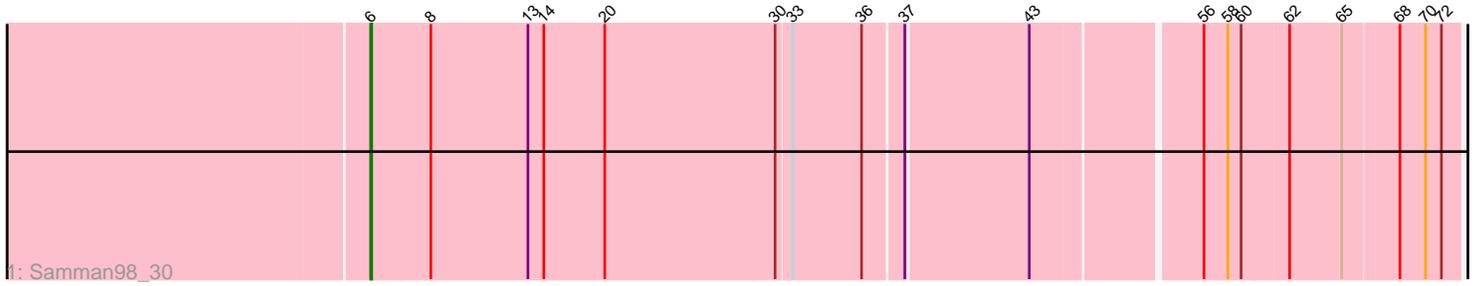


Pham 290042



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 290042 Report

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

Pham number 290042 has 7 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Samman98_30
- Track 2 : Invectra_30, Easley_30, WinkNick_30
- Track 3 : Sekhmet_30
- Track 4 : Fosterous_23
- Track 5 : Gudmit_29

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 5 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Easley_30, Invectra_30, Samman98_30, Sekhmet_30, WinkNick_30,

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

-

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

- Fosterous_23, Gudmit_29,

Summary by start number:

Start 3:

- Found in 1 of 7 (14.3%) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Fosterous_23 (DE1),

Start 6:

- Found in 5 of 7 (71.4%) of genes in pham
- Manual Annotations of this start: 5 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Easley_30 (CZ4), Invectra_30 (CZ4), Samman98_30 (CZ4), Sekhmet_30 (CZ4), WinkNick_30 (CZ4),

Start 7:

- Found in 1 of 7 (14.3%) of genes in pham
- Manual Annotations of this start: 1 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Gudmit_29 (singleton),

Summary by clusters:

There are 3 clusters represented in this pham: DE1, singleton, CZ4,

Info for manual annotations of cluster CZ4:

- Start number 6 was manually annotated 5 times for cluster CZ4.

Info for manual annotations of cluster DE1:

- Start number 3 was manually annotated 1 time for cluster DE1.

Gene Information:

Gene: Easley_30 Start: 24149, Stop: 25288, Start Num: 6

Candidate Starts for Easley_30:

(Start: 6 @24149 has 5 MA's), (9, 24239), (11, 24278), (12, 24308), (15, 24353), (19, 24392), (21, 24440), (22, 24446), (25, 24491), (31, 24584), (34, 24599), (39, 24755), (42, 24785), (44, 24863), (46, 24914), (53, 24989), (60, 25040), (64, 25139), (67, 25193), (71, 25253),

Gene: Fosterous_23 Start: 19719, Stop: 20936, Start Num: 3

Candidate Starts for Fosterous_23:

(Start: 3 @19719 has 1 MA's), (5, 19743), (10, 19878), (15, 19947), (17, 19959), (23, 20055), (26, 20106), (27, 20127), (32, 20187), (35, 20214), (40, 20361), (41, 20376), (42, 20379), (45, 20487), (47, 20532), (49, 20544), (52, 20628), (55, 20637), (57, 20661), (59, 20679), (63, 20775), (66, 20808),

Gene: Gudmit_29 Start: 22579, Stop: 23712, Start Num: 7

Candidate Starts for Gudmit_29:

(4, 22546), (Start: 7 @22579 has 1 MA's), (16, 22786), (18, 22819), (21, 22870), (24, 22915), (28, 22972), (29, 22990), (31, 23017), (38, 23152), (39, 23188), (46, 23347), (48, 23356), (50, 23365), (51, 23416), (54, 23425), (56, 23434), (57, 23452), (61, 23521), (64, 23569), (69, 23641), (71, 23683),

Gene: Invecra_30 Start: 24806, Stop: 25945, Start Num: 6

Candidate Starts for Invecra_30:

(Start: 6 @24806 has 5 MA's), (9, 24896), (11, 24935), (12, 24965), (15, 25010), (19, 25049), (21, 25097), (22, 25103), (25, 25148), (31, 25241), (34, 25256), (39, 25412), (42, 25442), (44, 25520), (46, 25571), (53, 25646), (60, 25697), (64, 25796), (67, 25850), (71, 25910),

Gene: Samman98_30 Start: 24176, Stop: 25330, Start Num: 6

Candidate Starts for Samman98_30:

(Start: 6 @24176 has 5 MA's), (8, 24239), (13, 24347), (14, 24365), (20, 24434), (30, 24626), (33, 24641), (36, 24719), (37, 24761), (43, 24893), (56, 25067), (58, 25088), (60, 25103), (62, 25154), (65, 25208), (68, 25265), (70, 25292), (72, 25310),

Gene: Sekhmet_30 Start: 24517, Stop: 25656, Start Num: 6

Candidate Starts for Sekhmet_30:

(1, 24145), (2, 24379), (Start: 6 @24517 has 5 MA's), (9, 24607), (11, 24646), (12, 24676), (15, 24721), (19, 24760), (21, 24808), (22, 24814), (25, 24859), (31, 24952), (34, 24967), (39, 25123), (42, 25153), (44, 25231), (46, 25282), (53, 25357), (60, 25408), (64, 25507), (67, 25561), (71, 25621),

Gene: WinkNick_30 Start: 24139, Stop: 25278, Start Num: 6

Candidate Starts for WinkNick_30:

(Start: 6 @24139 has 5 MA's), (9, 24229), (11, 24268), (12, 24298), (15, 24343), (19, 24382), (21, 24430), (22, 24436), (25, 24481), (31, 24574), (34, 24589), (39, 24745), (42, 24775), (44, 24853), (46, 24904), (53, 24979), (60, 25030), (64, 25129), (67, 25183), (71, 25243),