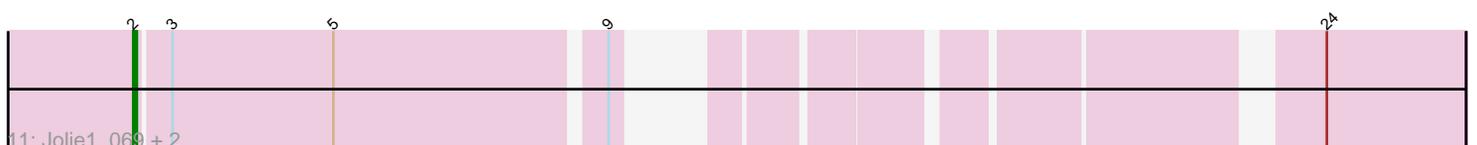
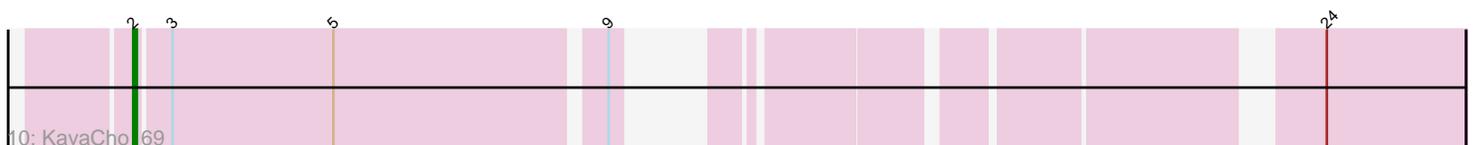
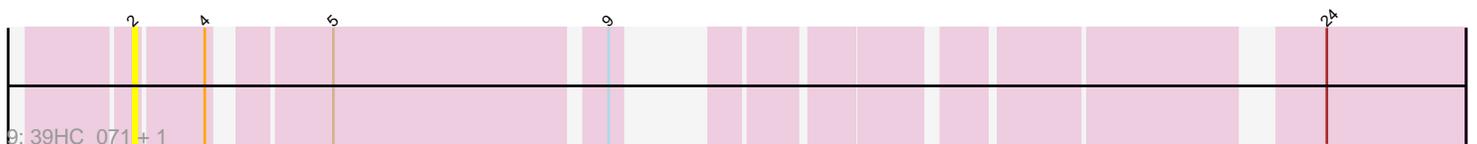
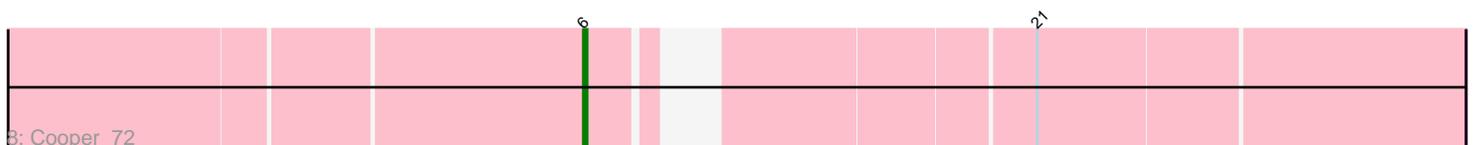
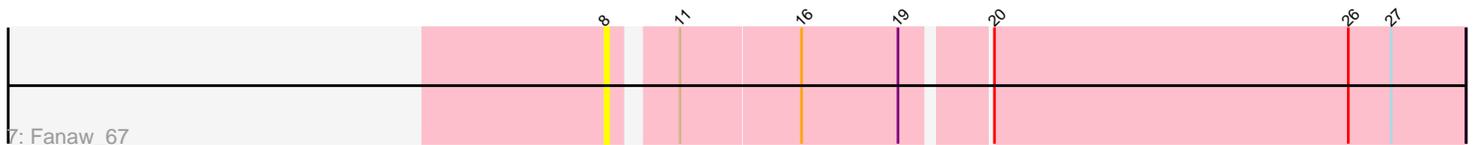
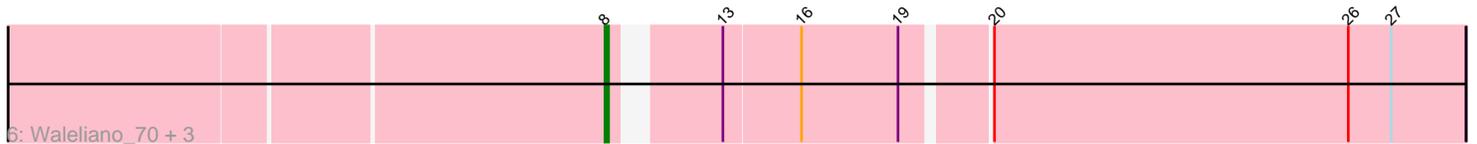
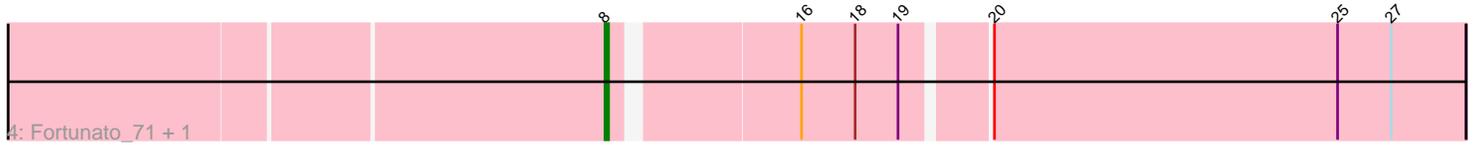
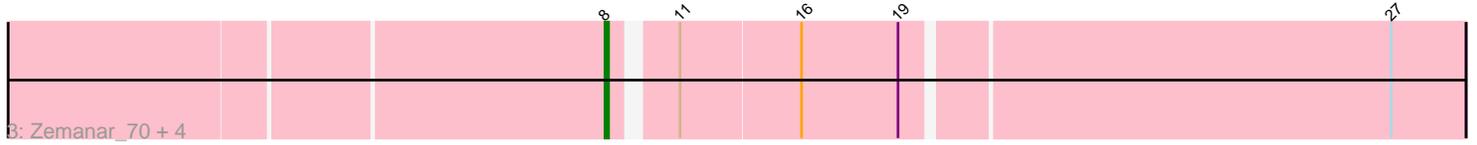


Pham 289714



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 289714 Report

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

Pham number 289714 has 24 members, 7 are drafts.

Phages represented in each track:

- Track 1 : Xincheng_70, JaguarMi_71
- Track 2 : Stinger_70
- Track 3 : Zemanar_70, Hangman_71, Heath_70, Frederick_72, Hydro_71
- Track 4 : Fortunato_71, RawrgerThat_71
- Track 5 : AlanGrant_74, Vincenzo_73
- Track 6 : Waleliano_70, Mithril_70, Lolalove_72, BrownCNA_72
- Track 7 : Fanaw_67
- Track 8 : Cooper_72
- Track 9 : 39HC_071, 40BC_071
- Track 10 : KayaCho_69
- Track 11 : Jolie1_069, ForDig_70, Hosp_067

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

The start number called the most often in the published annotations is 8, it was called in 11 of the 17 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BrownCNA_72, Fanaw_67, Fortunato_71, Frederick_72, Hangman_71, Heath_70, Hydro_71, JaguarMi_71, Lolalove_72, Mithril_70, RawrgerThat_71, Waleliano_70, Xincheng_70, Zemanar_70,

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

-

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

- 39HC_071, 40BC_071, AlanGrant_74, Cooper_72, ForDig_70, Hosp_067, Jolie1_069, KayaCho_69, Stinger_70, Vincenzo_73,

Summary by start number:

Start 2:

- Found in 6 of 24 (25.0%) of genes in pham
- Manual Annotations of this start: 2 of 17

- Called 100.0% of time when present
- Phage (with cluster) where this start called: 39HC_071 (B6), 40BC_071 (B6), ForDig_70 (B6), Hosp_067 (B6), Jolie1_069 (B6), KayaCho_69 (B6),

Start 6:

- Found in 3 of 24 (12.5%) of genes in pham
- Manual Annotations of this start: 3 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: AlanGrant_74 (B4), Cooper_72 (B4), Vincenzo_73 (B4),

Start 7:

- Found in 1 of 24 (4.2%) of genes in pham
- Manual Annotations of this start: 1 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Stinger_70 (B4),

Start 8:

- Found in 14 of 24 (58.3%) of genes in pham
- Manual Annotations of this start: 11 of 17
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BrownCNA_72 (B4), Fanaw_67 (B4), Fortunato_71 (B4), Frederick_72 (B4), Hangman_71 (B4), Heath_70 (B4), Hydro_71 (B4), JaguarMi_71 (B4), Lolalove_72 (B4), Mithril_70 (B4), RawrgerThat_71 (B4), Waleliano_70 (B4), Xincheng_70 (B4), Zemanar_70 (B4),

Summary by clusters:

There are 2 clusters represented in this pham: B4, B6,

Info for manual annotations of cluster B4:

- Start number 6 was manually annotated 3 times for cluster B4.
- Start number 7 was manually annotated 1 time for cluster B4.
- Start number 8 was manually annotated 11 times for cluster B4.

Info for manual annotations of cluster B6:

- Start number 2 was manually annotated 2 times for cluster B6.

Gene Information:

Gene: 39HC_071 Start: 59687, Stop: 59992, Start Num: 2

Candidate Starts for 39HC_071:

(Start: 2 @59687 has 2 MA's), (4, 59705), (5, 59732), (9, 59804), (24, 59954),

Gene: 40BC_071 Start: 59687, Stop: 59992, Start Num: 2

Candidate Starts for 40BC_071:

(Start: 2 @59687 has 2 MA's), (4, 59705), (5, 59732), (9, 59804), (24, 59954),

Gene: AlanGrant_74 Start: 62174, Stop: 62413, Start Num: 6

Candidate Starts for AlanGrant_74:

(Start: 6 @62174 has 3 MA's), (12, 62201), (17, 62243), (21, 62294), (23, 62354), (26, 62381), (27, 62393),

Gene: BrownCNA_72 Start: 61132, Stop: 61356, Start Num: 8

Candidate Starts for BrownCNA_72:

(Start: 8 @61132 has 11 MA's), (13, 61156), (16, 61177), (19, 61204), (20, 61225), (26, 61324), (27, 61336),

Gene: Cooper_72 Start: 60528, Stop: 60746, Start Num: 6

Candidate Starts for Cooper_72:

(Start: 6 @60528 has 3 MA's), (21, 60630),

Gene: Fanaw_67 Start: 60911, Stop: 61138, Start Num: 8

Candidate Starts for Fanaw_67:

(Start: 8 @60911 has 11 MA's), (11, 60926), (16, 60959), (19, 60986), (20, 61007), (26, 61106), (27, 61118),

Gene: ForDig_70 Start: 59595, Stop: 59903, Start Num: 2

Candidate Starts for ForDig_70:

(Start: 2 @59595 has 2 MA's), (3, 59604), (5, 59649), (9, 59721), (24, 59865),

Gene: Fortunato_71 Start: 60910, Stop: 61137, Start Num: 8

Candidate Starts for Fortunato_71:

(Start: 8 @60910 has 11 MA's), (16, 60958), (18, 60973), (19, 60985), (20, 61006), (25, 61102), (27, 61117),

Gene: Frederick_72 Start: 60934, Stop: 61161, Start Num: 8

Candidate Starts for Frederick_72:

(Start: 8 @60934 has 11 MA's), (11, 60949), (16, 60982), (19, 61009), (27, 61141),

Gene: Hangman_71 Start: 61133, Stop: 61360, Start Num: 8

Candidate Starts for Hangman_71:

(Start: 8 @61133 has 11 MA's), (11, 61148), (16, 61181), (19, 61208), (27, 61340),

Gene: Heath_70 Start: 60760, Stop: 60987, Start Num: 8

Candidate Starts for Heath_70:

(Start: 8 @60760 has 11 MA's), (11, 60775), (16, 60808), (19, 60835), (27, 60967),

Gene: Hosp_067 Start: 57475, Stop: 57783, Start Num: 2

Candidate Starts for Hosp_067:

(Start: 2 @57475 has 2 MA's), (3, 57484), (5, 57529), (9, 57601), (24, 57745),

Gene: Hydro_71 Start: 61071, Stop: 61298, Start Num: 8

Candidate Starts for Hydro_71:

(Start: 8 @61071 has 11 MA's), (11, 61086), (16, 61119), (19, 61146), (27, 61278),

Gene: JaguarMi_71 Start: 62147, Stop: 62386, Start Num: 8

Candidate Starts for JaguarMi_71:

(Start: 8 @62147 has 11 MA's), (10, 62156), (14, 62183), (15, 62198), (27, 62366),

Gene: Jolie1_069 Start: 59603, Stop: 59917, Start Num: 2

Candidate Starts for Jolie1_069:

(Start: 2 @59603 has 2 MA's), (3, 59612), (5, 59657), (9, 59729), (24, 59879),

Gene: KayaCho_69 Start: 59595, Stop: 59909, Start Num: 2
Candidate Starts for KayaCho_69:
(Start: 2 @59595 has 2 MA's), (3, 59604), (5, 59649), (9, 59721), (24, 59871),

Gene: Lolalove_72 Start: 61063, Stop: 61287, Start Num: 8
Candidate Starts for Lolalove_72:
(Start: 8 @61063 has 11 MA's), (13, 61087), (16, 61108), (19, 61135), (20, 61156), (26, 61255), (27, 61267),

Gene: Mithril_70 Start: 61062, Stop: 61286, Start Num: 8
Candidate Starts for Mithril_70:
(Start: 8 @61062 has 11 MA's), (13, 61086), (16, 61107), (19, 61134), (20, 61155), (26, 61254), (27, 61266),

Gene: RawrgerThat_71 Start: 60888, Stop: 61115, Start Num: 8
Candidate Starts for RawrgerThat_71:
(Start: 8 @60888 has 11 MA's), (16, 60936), (18, 60951), (19, 60963), (20, 60984), (25, 61080), (27, 61095),

Gene: Stinger_70 Start: 59828, Stop: 60040, Start Num: 7
Candidate Starts for Stinger_70:
(1, 59699), (Start: 7 @59828 has 1 MA's), (21, 59924), (22, 59945),

Gene: Vincenzo_73 Start: 62204, Stop: 62443, Start Num: 6
Candidate Starts for Vincenzo_73:
(Start: 6 @62204 has 3 MA's), (12, 62231), (17, 62273), (21, 62324), (23, 62384), (26, 62411), (27, 62423),

Gene: Waleliano_70 Start: 60885, Stop: 61109, Start Num: 8
Candidate Starts for Waleliano_70:
(Start: 8 @60885 has 11 MA's), (13, 60909), (16, 60930), (19, 60957), (20, 60978), (26, 61077), (27, 61089),

Gene: Xincheng_70 Start: 62098, Stop: 62337, Start Num: 8
Candidate Starts for Xincheng_70:
(Start: 8 @62098 has 11 MA's), (10, 62107), (14, 62134), (15, 62149), (27, 62317),

Gene: Zemanar_70 Start: 60862, Stop: 61089, Start Num: 8
Candidate Starts for Zemanar_70:
(Start: 8 @60862 has 11 MA's), (11, 60877), (16, 60910), (19, 60937), (27, 61069),