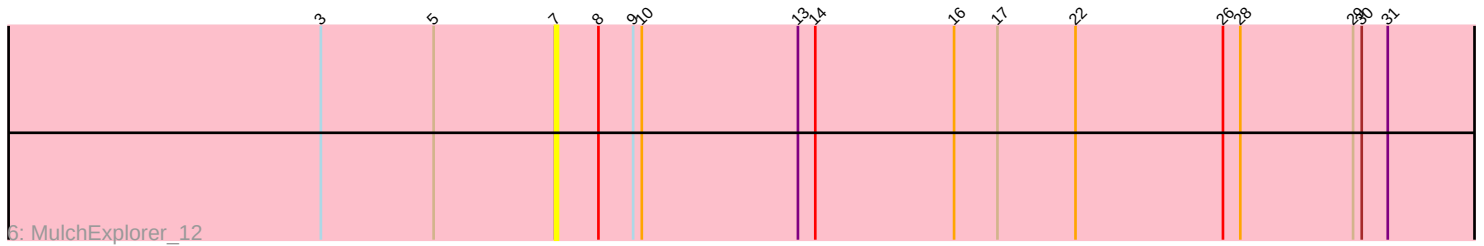
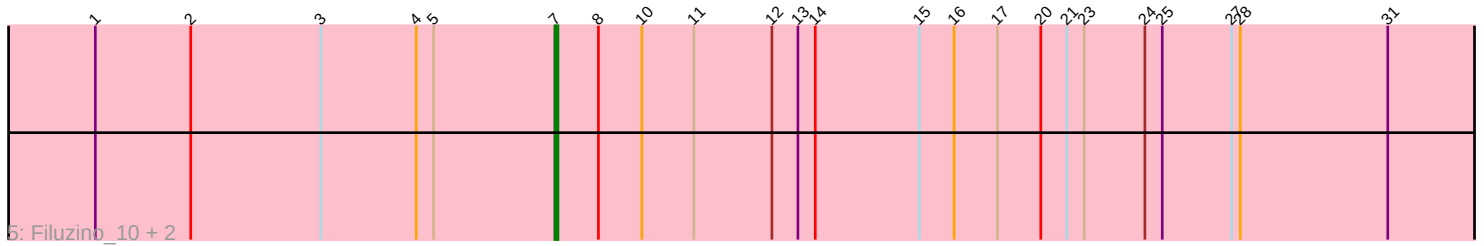
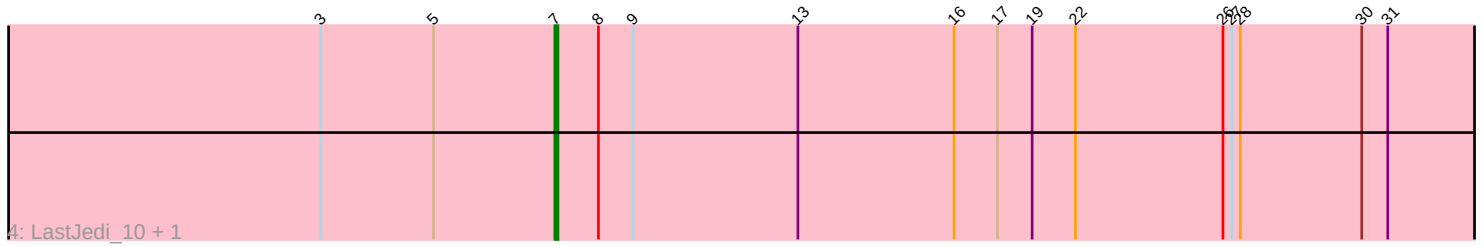
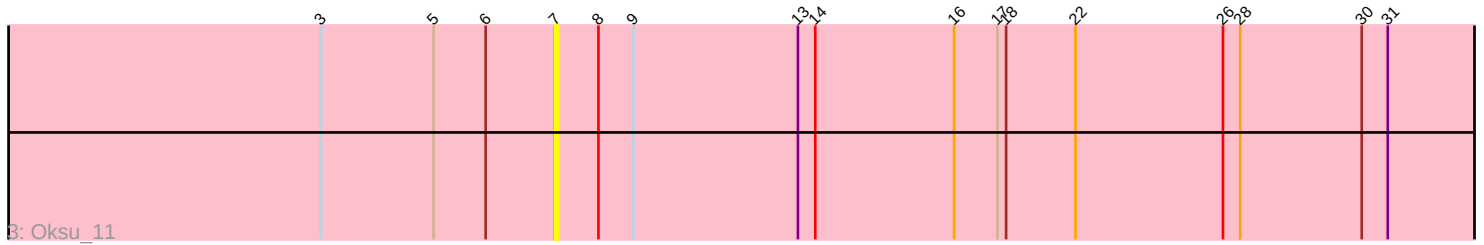
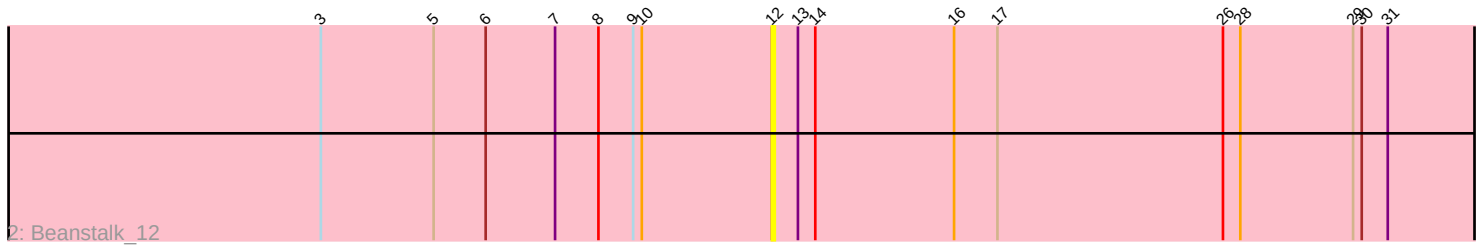
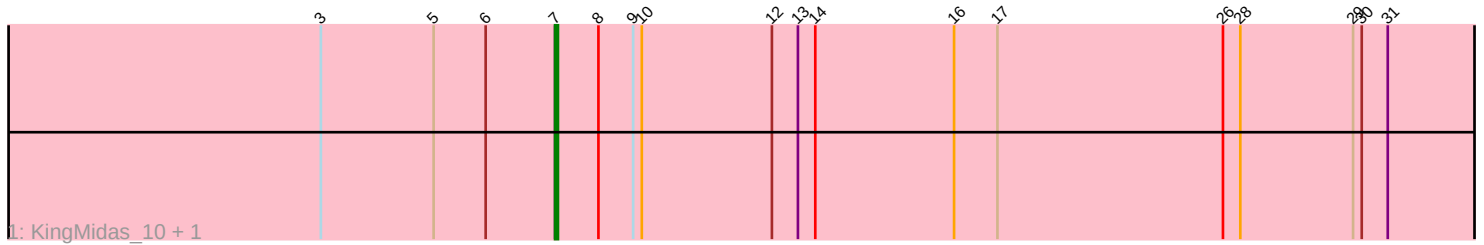


Pham 281137



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 281137 Report

This analysis was run 02/07/26 on database version 634.

Pham number 281137 has 10 members, 5 are drafts.

Phages represented in each track:

- Track 1 : KingMidas_10, Peridot_12
- Track 2 : Beanstalk_12
- Track 3 : Oksu_11
- Track 4 : LastJedi_10, James_10
- Track 5 : Filuzino_10, Melissauren88_10, Ms6_10
- Track 6 : MulchExplorer_12

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

The start number called the most often in the published annotations is 7, it was called in 5 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Filuzino_10, James_10, KingMidas_10, LastJedi_10, Melissauren88_10, Ms6_10, MulchExplorer_12, Oksu_11, Peridot_12,

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

- Beanstalk_12,

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

•

Summary by start number:

Start 7:

- Found in 10 of 10 (100.0%) of genes in pham
- Manual Annotations of this start: 5 of 5
- Called 90.0% of time when present
- Phage (with cluster) where this start called: Filuzino_10 (F1), James_10 (F1), KingMidas_10 (F1), LastJedi_10 (F1), Melissauren88_10 (F1), Ms6_10 (F1), MulchExplorer_12 (F1), Oksu_11 (F1), Peridot_12 (F1),

Start 12:

- Found in 6 of 10 (60.0%) of genes in pham

- No Manual Annotations of this start.
- Called 16.7% of time when present
- Phage (with cluster) where this start called: Beanstalk_12 (F1),

Summary by clusters:

There is one cluster represented in this pham: F1

Info for manual annotations of cluster F1:

- Start number 7 was manually annotated 5 times for cluster F1.

Gene Information:

Gene: Beanstalk_12 Start: 7103, Stop: 7351, Start Num: 12

Candidate Starts for Beanstalk_12:

(3, 6947), (5, 6986), (6, 7004), (Start: 7 @7028 has 5 MA's), (8, 7043), (9, 7055), (10, 7058), (12, 7103), (13, 7112), (14, 7118), (16, 7166), (17, 7181), (26, 7259), (28, 7265), (29, 7304), (30, 7307), (31, 7316),

Gene: Filuzino_10 Start: 7179, Stop: 7505, Start Num: 7

Candidate Starts for Filuzino_10:

(1, 7020), (2, 7053), (3, 7098), (4, 7131), (5, 7137), (Start: 7 @7179 has 5 MA's), (8, 7194), (10, 7209), (11, 7227), (12, 7254), (13, 7263), (14, 7269), (15, 7305), (16, 7317), (17, 7332), (20, 7347), (21, 7356), (23, 7362), (24, 7383), (25, 7389), (27, 7413), (28, 7416), (31, 7467),

Gene: James_10 Start: 7168, Stop: 7491, Start Num: 7

Candidate Starts for James_10:

(3, 7087), (5, 7126), (Start: 7 @7168 has 5 MA's), (8, 7183), (9, 7195), (13, 7252), (16, 7306), (17, 7321), (19, 7333), (22, 7348), (26, 7399), (27, 7402), (28, 7405), (30, 7447), (31, 7456),

Gene: KingMidas_10 Start: 7176, Stop: 7499, Start Num: 7

Candidate Starts for KingMidas_10:

(3, 7095), (5, 7134), (6, 7152), (Start: 7 @7176 has 5 MA's), (8, 7191), (9, 7203), (10, 7206), (12, 7251), (13, 7260), (14, 7266), (16, 7314), (17, 7329), (26, 7407), (28, 7413), (29, 7452), (30, 7455), (31, 7464),

Gene: LastJedi_10 Start: 7168, Stop: 7491, Start Num: 7

Candidate Starts for LastJedi_10:

(3, 7087), (5, 7126), (Start: 7 @7168 has 5 MA's), (8, 7183), (9, 7195), (13, 7252), (16, 7306), (17, 7321), (19, 7333), (22, 7348), (26, 7399), (27, 7402), (28, 7405), (30, 7447), (31, 7456),

Gene: Melissaren88_10 Start: 7178, Stop: 7504, Start Num: 7

Candidate Starts for Melissaren88_10:

(1, 7019), (2, 7052), (3, 7097), (4, 7130), (5, 7136), (Start: 7 @7178 has 5 MA's), (8, 7193), (10, 7208), (11, 7226), (12, 7253), (13, 7262), (14, 7268), (15, 7304), (16, 7316), (17, 7331), (20, 7346), (21, 7355), (23, 7361), (24, 7382), (25, 7388), (27, 7412), (28, 7415), (31, 7466),

Gene: Ms6_10 Start: 7178, Stop: 7504, Start Num: 7

Candidate Starts for Ms6_10:

(1, 7019), (2, 7052), (3, 7097), (4, 7130), (5, 7136), (Start: 7 @7178 has 5 MA's), (8, 7193), (10, 7208), (11, 7226), (12, 7253), (13, 7262), (14, 7268), (15, 7304), (16, 7316), (17, 7331), (20, 7346), (21, 7355),

(23, 7361), (24, 7382), (25, 7388), (27, 7412), (28, 7415), (31, 7466),

Gene: MulchExplorer_12 Start: 7030, Stop: 7353, Start Num: 7

Candidate Starts for MulchExplorer_12:

(3, 6949), (5, 6988), (Start: 7 @7030 has 5 MA's), (8, 7045), (9, 7057), (10, 7060), (13, 7114), (14, 7120), (16, 7168), (17, 7183), (22, 7210), (26, 7261), (28, 7267), (29, 7306), (30, 7309), (31, 7318),

Gene: Oksu_11 Start: 7030, Stop: 7353, Start Num: 7

Candidate Starts for Oksu_11:

(3, 6949), (5, 6988), (6, 7006), (Start: 7 @7030 has 5 MA's), (8, 7045), (9, 7057), (13, 7114), (14, 7120), (16, 7168), (17, 7183), (18, 7186), (22, 7210), (26, 7261), (28, 7267), (30, 7309), (31, 7318),

Gene: Peridot_12 Start: 7029, Stop: 7352, Start Num: 7

Candidate Starts for Peridot_12:

(3, 6948), (5, 6987), (6, 7005), (Start: 7 @7029 has 5 MA's), (8, 7044), (9, 7056), (10, 7059), (12, 7104), (13, 7113), (14, 7119), (16, 7167), (17, 7182), (26, 7260), (28, 7266), (29, 7305), (30, 7308), (31, 7317),