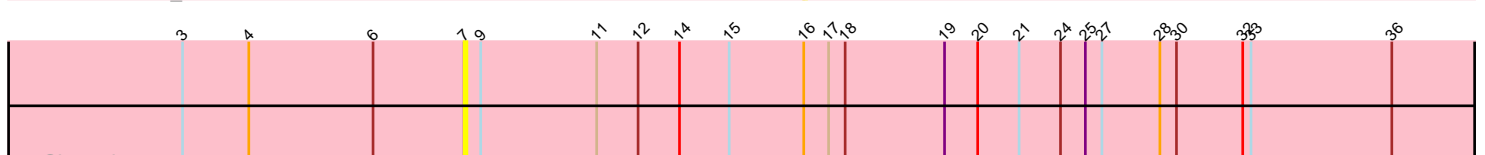
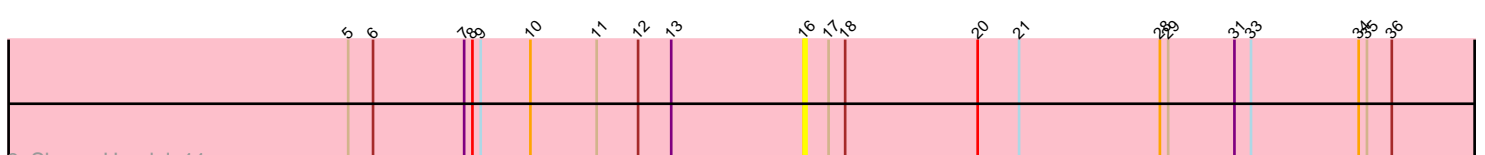
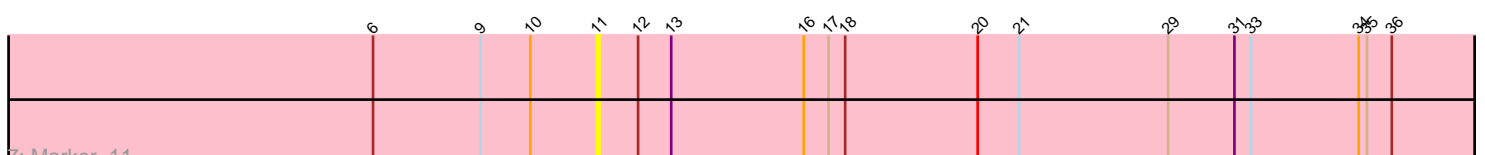
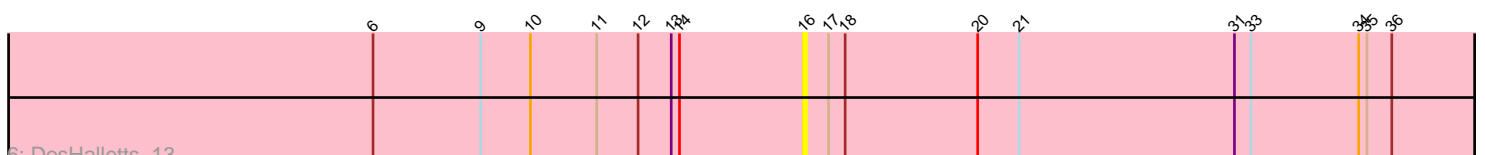
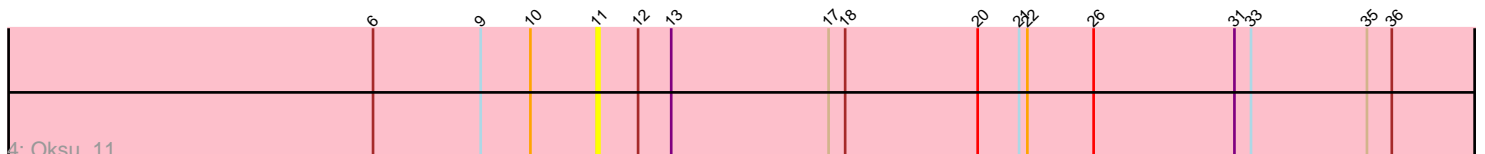
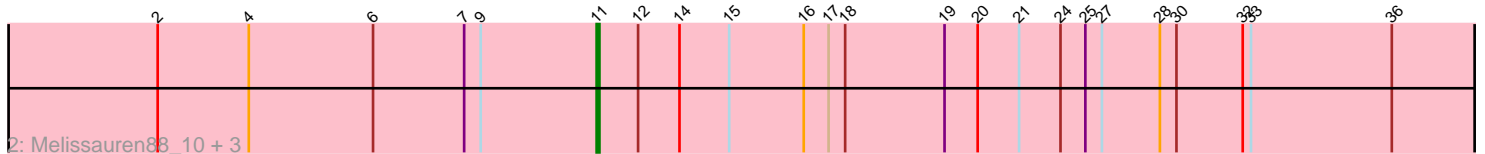
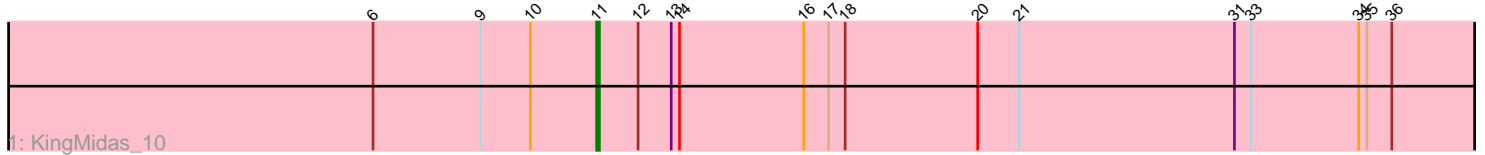


Pham 162224



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 162224 Report

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

Pham number 162224 has 17 members, 8 are drafts.

Phages represented in each track:

- Track 1 : KingMidas_10
- Track 2 : Meliss Lauren88_10, PhesterPotato_10, Filuzino_10, Ms6_10
- Track 3 : Krakatau_11, Fruitloop_10, DillTech15_10, CaptainTrips_11
- Track 4 : Oksu_11
- Track 5 : LastJedi_10, James_10
- Track 6 : DosHalletts_13
- Track 7 : Marker_11
- Track 8 : DocMcStuffins_11
- Track 9 : ShowerHandel_11
- Track 10 : Chevrolet_9

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

The start number called the most often in the published annotations is 11, it was called in 5 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Filuzino_10, James_10, KingMidas_10, LastJedi_10, Marker_11, Meliss Lauren88_10, Ms6_10, Oksu_11, PhesterPotato_10,

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

- CaptainTrips_11, Chevrolet_9, DillTech15_10, DocMcStuffins_11, DosHalletts_13, Fruitloop_10, Krakatau_11, ShowerHandel_11,

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

-

Summary by start number:

Start 7:

- Found in 11 of 17 (64.7%) of genes in pham
- Manual Annotations of this start: 4 of 9
- Called 54.5% of time when present

- Phage (with cluster) where this start called: CaptainTrips_11 (F1), Chevrolet_9 (F1), DillTech15_10 (F1), DocMcStuffins_11 (F1), Fruitloop_10 (F1), Krakatau_11 (F1),

Start 11:

- Found in 17 of 17 (100.0%) of genes in pham
- Manual Annotations of this start: 5 of 9
- Called 52.9% of time when present
- Phage (with cluster) where this start called: Filuzino_10 (F1), James_10 (F1), KingMidas_10 (F1), LastJedi_10 (F1), Marker_11 (F1), Melissauren88_10 (F1), Ms6_10 (F1), Oksu_11 (F1), PhesterPhotato_10 (F1),

Start 16:

- Found in 13 of 17 (76.5%) of genes in pham
- No Manual Annotations of this start.
- Called 15.4% of time when present
- Phage (with cluster) where this start called: DosHalletts_13 (F1), ShowerHandel_11 (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 4 times for cluster F1.
- Start number 11 was manually annotated 5 times for cluster F1.

Gene Information:

Gene: CaptainTrips_11 Start: 7778, Stop: 8152, Start Num: 7

Candidate Starts for CaptainTrips_11:

(2, 7667), (4, 7700), (6, 7745), (Start: 7 @7778 has 4 MA's), (9, 7784), (Start: 11 @7826 has 5 MA's), (12, 7841), (14, 7856), (15, 7874), (16, 7901), (17, 7910), (18, 7916), (19, 7952), (20, 7964), (21, 7979), (24, 7994), (25, 8003), (27, 8009), (28, 8030), (30, 8036), (32, 8060), (33, 8063), (36, 8114),

Gene: Chevrolet_9 Start: 7120, Stop: 7494, Start Num: 7

Candidate Starts for Chevrolet_9:

(3, 7018), (4, 7042), (6, 7087), (Start: 7 @7120 has 4 MA's), (9, 7126), (Start: 11 @7168 has 5 MA's), (12, 7183), (14, 7198), (15, 7216), (16, 7243), (17, 7252), (18, 7258), (19, 7294), (20, 7306), (21, 7321), (24, 7336), (25, 7345), (27, 7351), (28, 7372), (30, 7378), (32, 7402), (33, 7405), (36, 7456),

Gene: DillTech15_10 Start: 7130, Stop: 7504, Start Num: 7

Candidate Starts for DillTech15_10:

(2, 7019), (4, 7052), (6, 7097), (Start: 7 @7130 has 4 MA's), (9, 7136), (Start: 11 @7178 has 5 MA's), (12, 7193), (14, 7208), (15, 7226), (16, 7253), (17, 7262), (18, 7268), (19, 7304), (20, 7316), (21, 7331), (24, 7346), (25, 7355), (27, 7361), (28, 7382), (30, 7388), (32, 7412), (33, 7415), (36, 7466),

Gene: DocMcStuffins_11 Start: 6984, Stop: 7355, Start Num: 7

Candidate Starts for DocMcStuffins_11:

(1, 6849), (6, 6951), (Start: 7 @6984 has 4 MA's), (8, 6987), (9, 6990), (10, 7008), (Start: 11 @7032 has 5 MA's), (12, 7047), (13, 7059), (17, 7116), (18, 7122), (20, 7170), (21, 7185), (22, 7188), (26, 7212), (31, 7263), (33, 7269), (35, 7311), (36, 7320),

Gene: DosHalletts_13 Start: 7104, Stop: 7352, Start Num: 16

Candidate Starts for DosHalletts_13:

(6, 6948), (9, 6987), (10, 7005), (Start: 11 @7029 has 5 MA's), (12, 7044), (13, 7056), (14, 7059), (16, 7104), (17, 7113), (18, 7119), (20, 7167), (21, 7182), (31, 7260), (33, 7266), (34, 7305), (35, 7308), (36, 7317),

Gene: Filuzino_10 Start: 7179, Stop: 7505, Start Num: 11

Candidate Starts for Filuzino_10:

(2, 7020), (4, 7053), (6, 7098), (Start: 7 @7131 has 4 MA's), (9, 7137), (Start: 11 @7179 has 5 MA's), (12, 7194), (14, 7209), (15, 7227), (16, 7254), (17, 7263), (18, 7269), (19, 7305), (20, 7317), (21, 7332), (24, 7347), (25, 7356), (27, 7362), (28, 7383), (30, 7389), (32, 7413), (33, 7416), (36, 7467),

Gene: Fruitloop_10 Start: 7131, Stop: 7505, Start Num: 7

Candidate Starts for Fruitloop_10:

(2, 7020), (4, 7053), (6, 7098), (Start: 7 @7131 has 4 MA's), (9, 7137), (Start: 11 @7179 has 5 MA's), (12, 7194), (14, 7209), (15, 7227), (16, 7254), (17, 7263), (18, 7269), (19, 7305), (20, 7317), (21, 7332), (24, 7347), (25, 7356), (27, 7362), (28, 7383), (30, 7389), (32, 7413), (33, 7416), (36, 7467),

Gene: James_10 Start: 7168, Stop: 7491, Start Num: 11

Candidate Starts for James_10:

(6, 7087), (9, 7126), (Start: 11 @7168 has 5 MA's), (12, 7183), (13, 7195), (17, 7252), (20, 7306), (21, 7321), (23, 7333), (26, 7348), (31, 7399), (32, 7402), (33, 7405), (35, 7447), (36, 7456),

Gene: KingMidas_10 Start: 7176, Stop: 7499, Start Num: 11

Candidate Starts for KingMidas_10:

(6, 7095), (9, 7134), (10, 7152), (Start: 11 @7176 has 5 MA's), (12, 7191), (13, 7203), (14, 7206), (16, 7251), (17, 7260), (18, 7266), (20, 7314), (21, 7329), (31, 7407), (33, 7413), (34, 7452), (35, 7455), (36, 7464),

Gene: Krakatau_11 Start: 7782, Stop: 8156, Start Num: 7

Candidate Starts for Krakatau_11:

(2, 7671), (4, 7704), (6, 7749), (Start: 7 @7782 has 4 MA's), (9, 7788), (Start: 11 @7830 has 5 MA's), (12, 7845), (14, 7860), (15, 7878), (16, 7905), (17, 7914), (18, 7920), (19, 7956), (20, 7968), (21, 7983), (24, 7998), (25, 8007), (27, 8013), (28, 8034), (30, 8040), (32, 8064), (33, 8067), (36, 8118),

Gene: LastJedi_10 Start: 7168, Stop: 7491, Start Num: 11

Candidate Starts for LastJedi_10:

(6, 7087), (9, 7126), (Start: 11 @7168 has 5 MA's), (12, 7183), (13, 7195), (17, 7252), (20, 7306), (21, 7321), (23, 7333), (26, 7348), (31, 7399), (32, 7402), (33, 7405), (35, 7447), (36, 7456),

Gene: Marker_11 Start: 7028, Stop: 7351, Start Num: 11

Candidate Starts for Marker_11:

(6, 6947), (9, 6986), (10, 7004), (Start: 11 @7028 has 5 MA's), (12, 7043), (13, 7055), (16, 7103), (17, 7112), (18, 7118), (20, 7166), (21, 7181), (29, 7235), (31, 7259), (33, 7265), (34, 7304), (35, 7307), (36, 7316),

Gene: Melissauren88_10 Start: 7178, Stop: 7504, Start Num: 11

Candidate Starts for Melissauren88_10:

(2, 7019), (4, 7052), (6, 7097), (Start: 7 @7130 has 4 MA's), (9, 7136), (Start: 11 @7178 has 5 MA's), (12, 7193), (14, 7208), (15, 7226), (16, 7253), (17, 7262), (18, 7268), (19, 7304), (20, 7316), (21, 7331), (24, 7346), (25, 7355), (27, 7361), (28, 7382), (30, 7388), (32, 7412), (33, 7415), (36, 7466),

Gene: Ms6_10 Start: 7178, Stop: 7504, Start Num: 11

Candidate Starts for Ms6_10:

(2, 7019), (4, 7052), (6, 7097), (Start: 7 @7130 has 4 MA's), (9, 7136), (Start: 11 @7178 has 5 MA's), (12, 7193), (14, 7208), (15, 7226), (16, 7253), (17, 7262), (18, 7268), (19, 7304), (20, 7316), (21, 7331), (24, 7346), (25, 7355), (27, 7361), (28, 7382), (30, 7388), (32, 7412), (33, 7415), (36, 7466),

Gene: Oksu_11 Start: 7030, Stop: 7353, Start Num: 11

Candidate Starts for Oksu_11:

(6, 6949), (9, 6988), (10, 7006), (Start: 11 @7030 has 5 MA's), (12, 7045), (13, 7057), (17, 7114), (18, 7120), (20, 7168), (21, 7183), (22, 7186), (26, 7210), (31, 7261), (33, 7267), (35, 7309), (36, 7318),

Gene: PhesterPhotato_10 Start: 7178, Stop: 7504, Start Num: 11

Candidate Starts for PhesterPhotato_10:

(2, 7019), (4, 7052), (6, 7097), (Start: 7 @7130 has 4 MA's), (9, 7136), (Start: 11 @7178 has 5 MA's), (12, 7193), (14, 7208), (15, 7226), (16, 7253), (17, 7262), (18, 7268), (19, 7304), (20, 7316), (21, 7331), (24, 7346), (25, 7355), (27, 7361), (28, 7382), (30, 7388), (32, 7412), (33, 7415), (36, 7466),

Gene: ShowerHandel_11 Start: 7253, Stop: 7501, Start Num: 16

Candidate Starts for ShowerHandel_11:

(5, 7088), (6, 7097), (Start: 7 @7130 has 4 MA's), (8, 7133), (9, 7136), (10, 7154), (Start: 11 @7178 has 5 MA's), (12, 7193), (13, 7205), (16, 7253), (17, 7262), (18, 7268), (20, 7316), (21, 7331), (28, 7382), (29, 7385), (31, 7409), (33, 7415), (34, 7454), (35, 7457), (36, 7466),