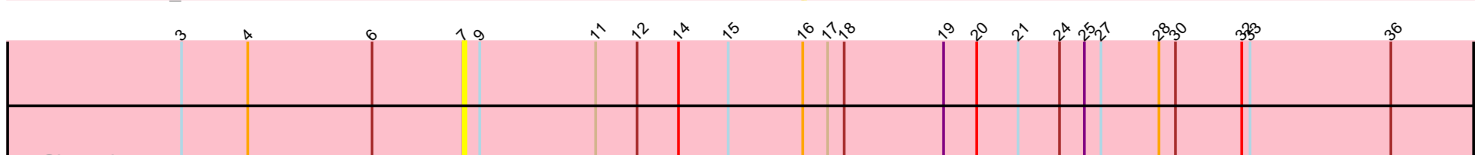
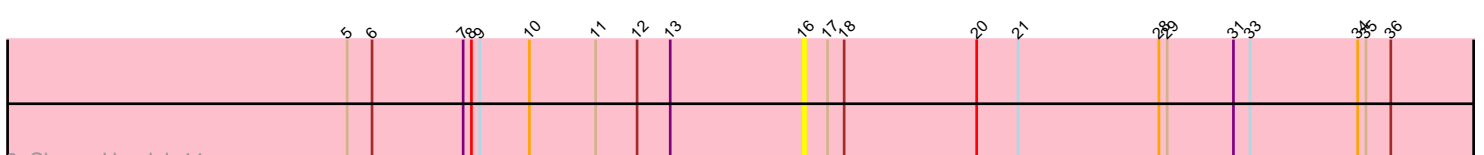
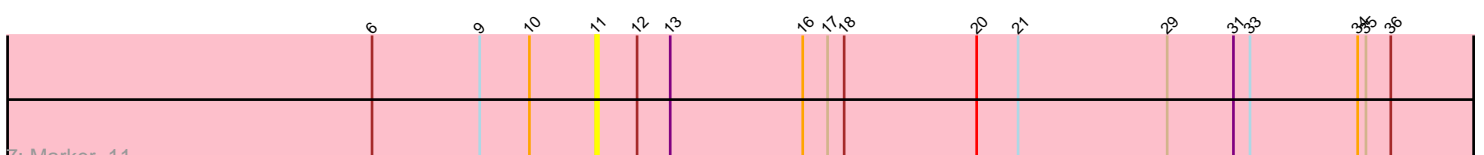
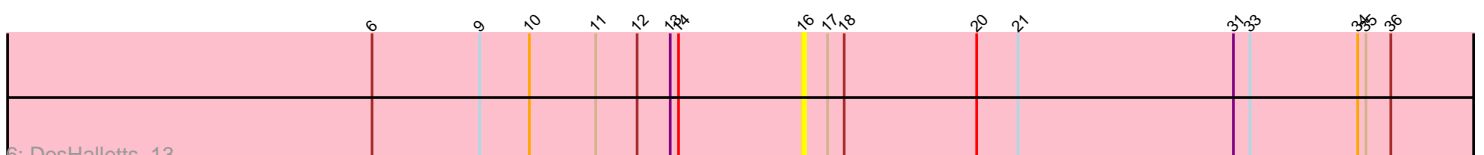
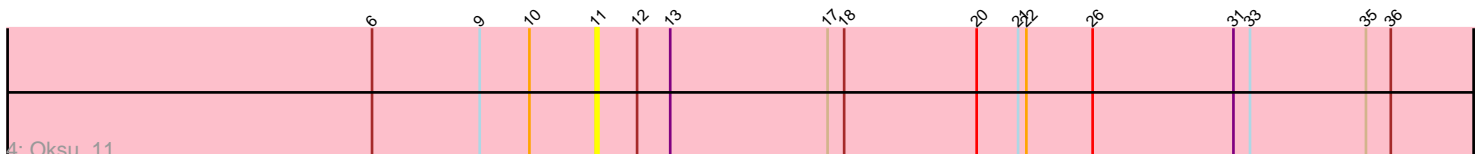
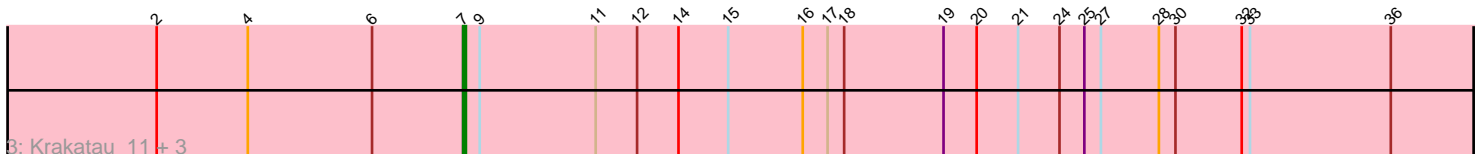
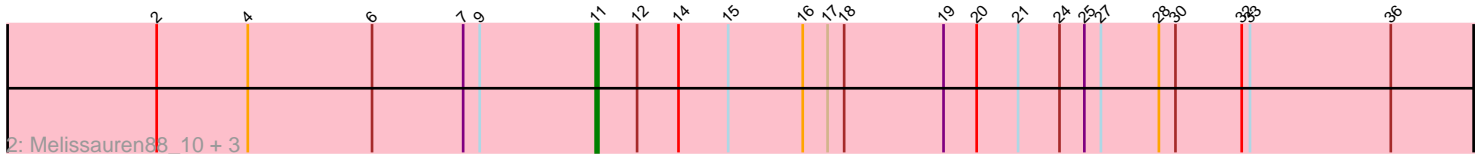
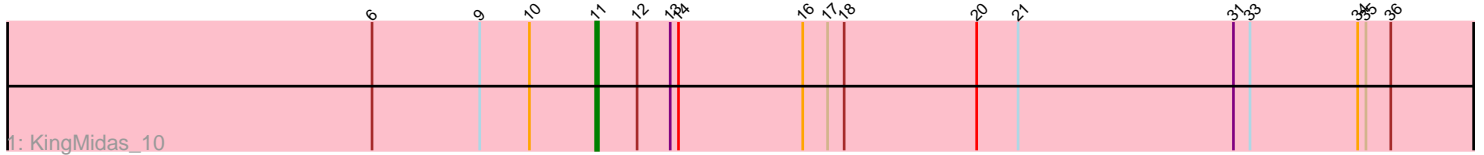


Pham 158218



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 158218 Report

This analysis was run 04/13/24 on database version 558.

Pham number 158218 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),