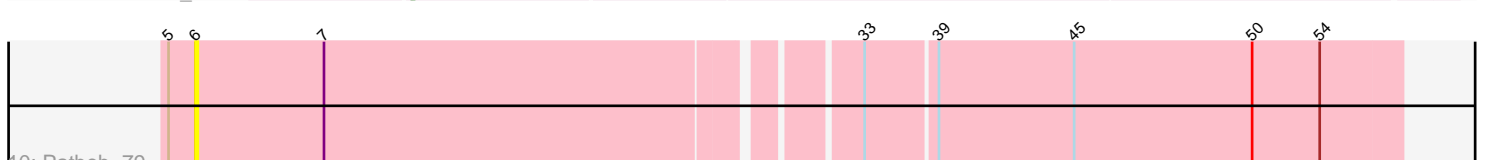
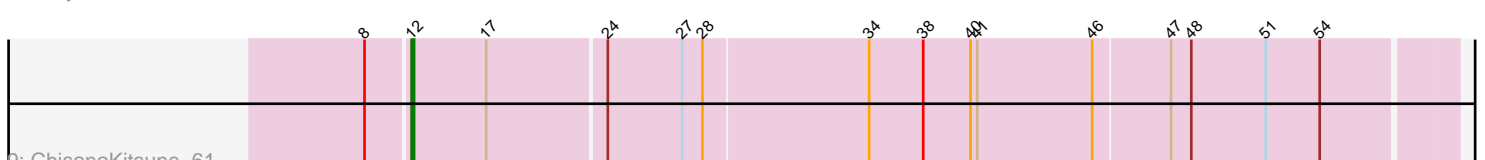
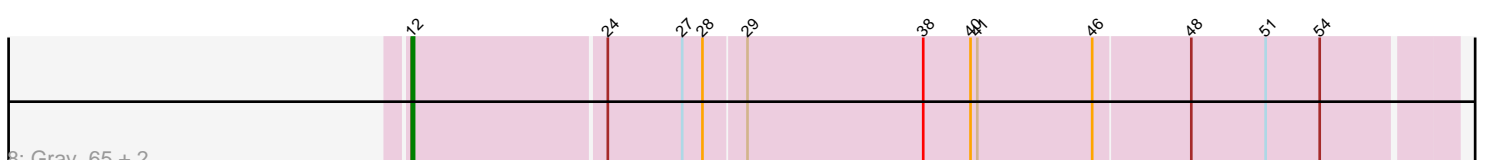
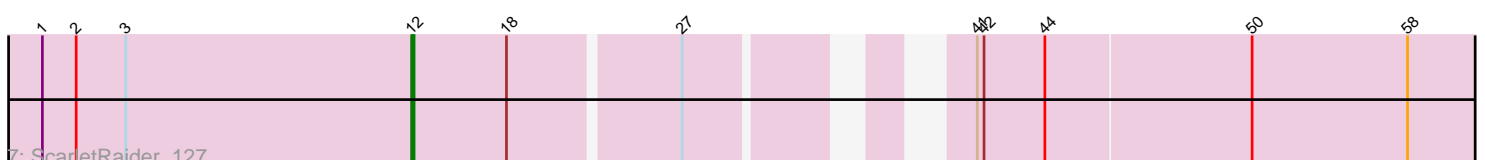
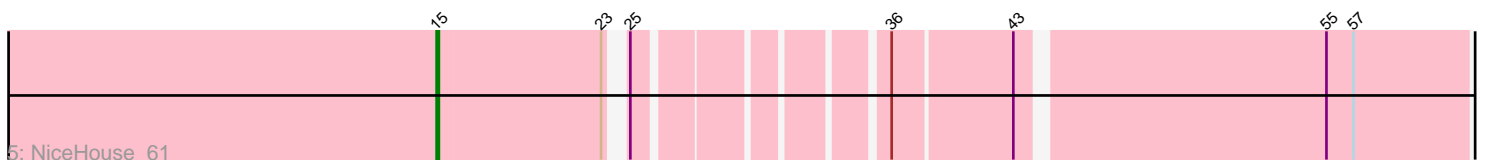
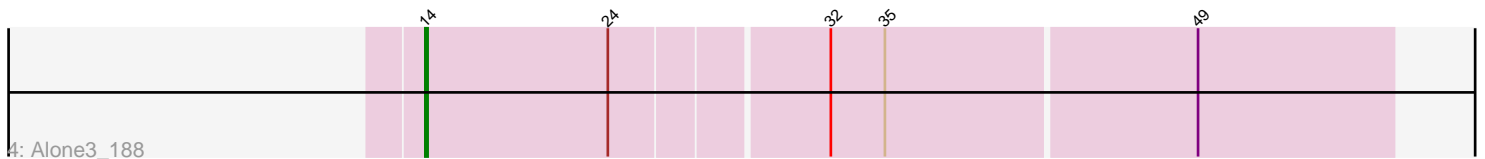
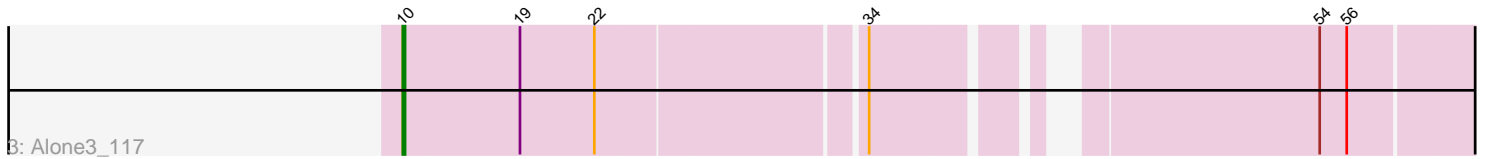
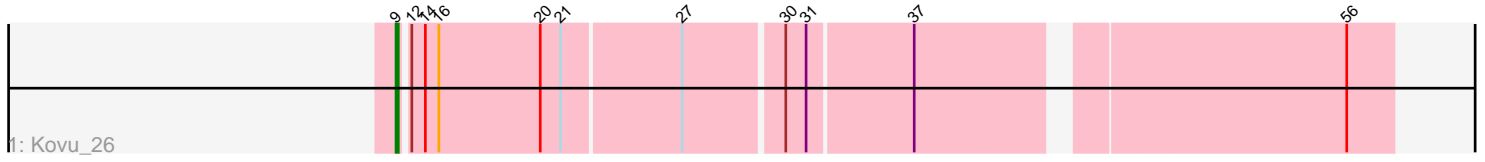


# Pham 194491



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 194491 Report

This analysis was run 11/02/24 on database version 579.

Pham number 194491 has 12 members, 1 are drafts.

Phages represented in each track:

- Track 1 : Kovu\_26
- Track 2 : Alone3\_216
- Track 3 : Alone3\_117
- Track 4 : Alone3\_188
- Track 5 : NiceHouse\_61
- Track 6 : Chidiebere\_129
- Track 7 : ScarletRaider\_127
- Track 8 : Gray\_65, Kabocha\_66, Chidiebere\_65
- Track 9 : ChisanaKitsune\_61
- Track 10 : Patbob\_79

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

The start number called the most often in the published annotations is 12, it was called in 5 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Chidiebere\_65, ChisanaKitsune\_61, Gray\_65, Kabocha\_66, ScarletRaider\_127,

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

- Kovu\_26,

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

- Alone3\_117, Alone3\_188, Alone3\_216, Chidiebere\_129, NiceHouse\_61, Patbob\_79,

### **Summary by start number:**

Start 6:

- Found in 1 of 12 ( 8.3% ) of genes in pham
- No Manual Annotations of this start.
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Patbob\_79 (FC),

Start 9:

- Found in 1 of 12 ( 8.3% ) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Kovu\_26 (AL),

Start 10:

- Found in 1 of 12 ( 8.3% ) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alone3\_117 (BS),

Start 11:

- Found in 1 of 12 ( 8.3% ) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Chidiebere\_129 (DQ),

Start 12:

- Found in 6 of 12 ( 50.0% ) of genes in pham
- Manual Annotations of this start: 5 of 11
- Called 83.3% of time when present
- Phage (with cluster) where this start called: Chidiebere\_65 (DQ), ChisanaKitsune\_61 (DQ), Gray\_65 (DQ), Kabocha\_66 (DQ), ScarletRaider\_127 (DQ),

Start 13:

- Found in 1 of 12 ( 8.3% ) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Alone3\_216 (BS),

Start 14:

- Found in 2 of 12 ( 16.7% ) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 50.0% of time when present
- Phage (with cluster) where this start called: Alone3\_188 (BS),

Start 15:

- Found in 1 of 12 ( 8.3% ) of genes in pham
- Manual Annotations of this start: 1 of 11
- Called 100.0% of time when present
- Phage (with cluster) where this start called: NiceHouse\_61 (CE),

**Summary by clusters:**

There are 5 clusters represented in this pham: FC, BS, AL, CE, DQ,

Info for manual annotations of cluster AL:

- Start number 9 was manually annotated 1 time for cluster AL.

Info for manual annotations of cluster BS:

- Start number 10 was manually annotated 1 time for cluster BS.

- Start number 13 was manually annotated 1 time for cluster BS.
- Start number 14 was manually annotated 1 time for cluster BS.

Info for manual annotations of cluster CE:

- Start number 15 was manually annotated 1 time for cluster CE.

Info for manual annotations of cluster DQ:

- Start number 11 was manually annotated 1 time for cluster DQ.
- Start number 12 was manually annotated 5 times for cluster DQ.

### **Gene Information:**

Gene: Alone3\_216 Start: 111609, Stop: 111190, Start Num: 13

Candidate Starts for Alone3\_216:

(Start: 13 @111609 has 1 MA's), (27, 111495), (32, 111435), (34, 111426), (48, 111309), (52, 111258),

Gene: Alone3\_117 Start: 62982, Stop: 63413, Start Num: 10

Candidate Starts for Alone3\_117:

(Start: 10 @62982 has 1 MA's), (19, 63033), (22, 63066), (34, 63177), (54, 63345), (56, 63357),

Gene: Alone3\_188 Start: 97401, Stop: 96985, Start Num: 14

Candidate Starts for Alone3\_188:

(Start: 14 @97401 has 1 MA's), (24, 97320), (32, 97230), (35, 97206), (49, 97071),

Gene: Chidiebere\_129 Start: 90897, Stop: 90346, Start Num: 11

Candidate Starts for Chidiebere\_129:

(4, 91011), (Start: 11 @90897 has 1 MA's), (23, 90816), (26, 90801), (41, 90651), (51, 90525), (53, 90504), (54, 90501),

Gene: Chidiebere\_65 Start: 51821, Stop: 52273, Start Num: 12

Candidate Starts for Chidiebere\_65:

(Start: 12 @51821 has 5 MA's), (24, 51905), (27, 51938), (28, 51947), (29, 51965), (38, 52043), (40, 52064), (41, 52067), (46, 52118), (48, 52160), (51, 52193), (54, 52217),

Gene: ChisanaKitsune\_61 Start: 50595, Stop: 51047, Start Num: 12

Candidate Starts for ChisanaKitsune\_61:

(8, 50577), (Start: 12 @50595 has 5 MA's), (17, 50628), (24, 50679), (27, 50712), (28, 50721), (34, 50793), (38, 50817), (40, 50838), (41, 50841), (46, 50892), (47, 50925), (48, 50934), (51, 50967), (54, 50991),

Gene: Gray\_65 Start: 51821, Stop: 52273, Start Num: 12

Candidate Starts for Gray\_65:

(Start: 12 @51821 has 5 MA's), (24, 51905), (27, 51938), (28, 51947), (29, 51965), (38, 52043), (40, 52064), (41, 52067), (46, 52118), (48, 52160), (51, 52193), (54, 52217),

Gene: Kabocha\_66 Start: 52633, Stop: 53085, Start Num: 12

Candidate Starts for Kabocha\_66:

(Start: 12 @52633 has 5 MA's), (24, 52717), (27, 52750), (28, 52759), (29, 52777), (38, 52855), (40, 52876), (41, 52879), (46, 52930), (48, 52972), (51, 53005), (54, 53029),

Gene: Kovu\_26 Start: 17736, Stop: 17326, Start Num: 9

Candidate Starts for Kovu\_26:

(Start: 9 @17736 has 1 MA's), (Start: 12 @17733 has 5 MA's), (Start: 14 @17727 has 1 MA's), (16, 17721), (20, 17676), (21, 17667), (27, 17616), (30, 17574), (31, 17565), (37, 17520), (56, 17346),

Gene: NiceHouse\_61 Start: 34862, Stop: 35269, Start Num: 15

Candidate Starts for NiceHouse\_61:

(Start: 15 @34862 has 1 MA's), (23, 34934), (25, 34937), (36, 35027), (43, 35078), (55, 35207), (57, 35219),

Gene: Patbob\_79 Start: 44134, Stop: 43622, Start Num: 6

Candidate Starts for Patbob\_79:

(5, 44146), (6, 44134), (7, 44077), (33, 43855), (39, 43825), (45, 43765), (50, 43687), (54, 43657),

Gene: ScarletRaider\_127 Start: 92635, Stop: 92135, Start Num: 12

Candidate Starts for ScarletRaider\_127:

(1, 92797), (2, 92782), (3, 92761), (Start: 12 @92635 has 5 MA's), (18, 92593), (27, 92521), (41, 92434), (42, 92431), (44, 92404), (50, 92314), (58, 92245),