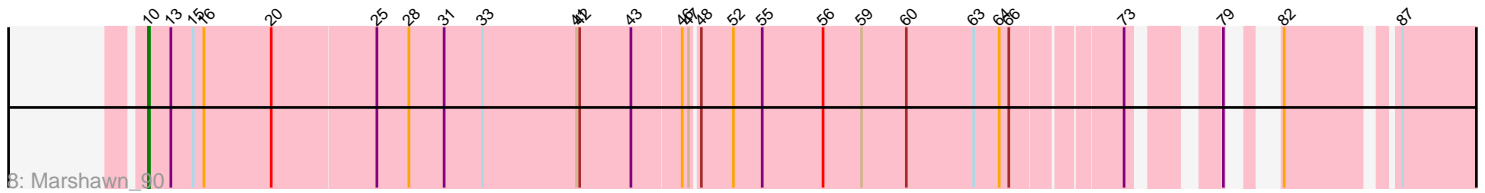
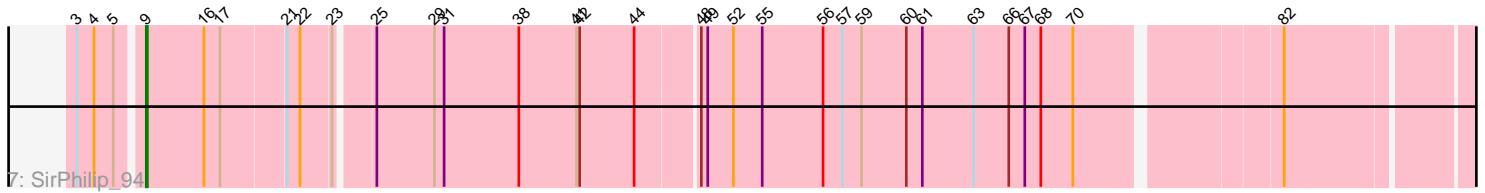
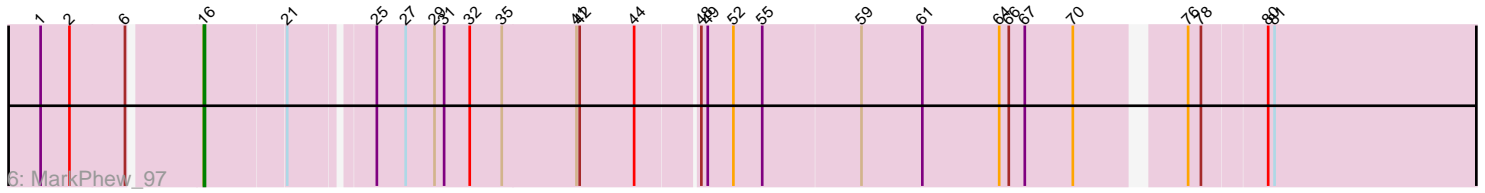
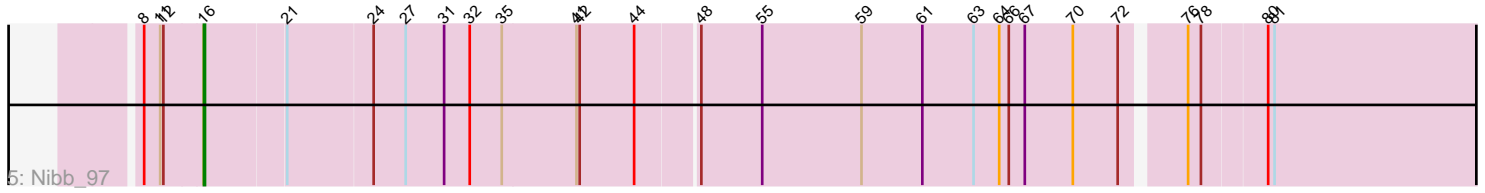
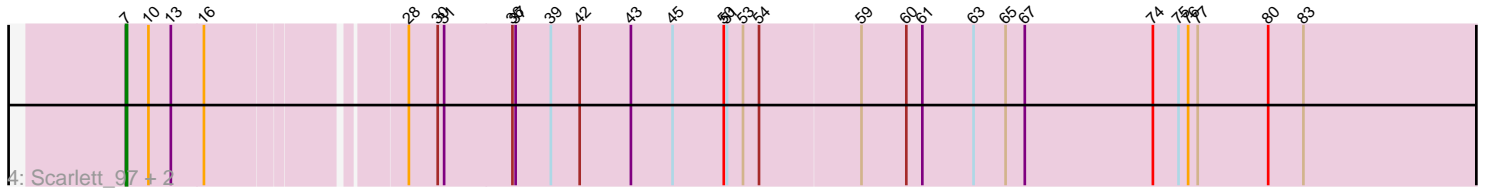
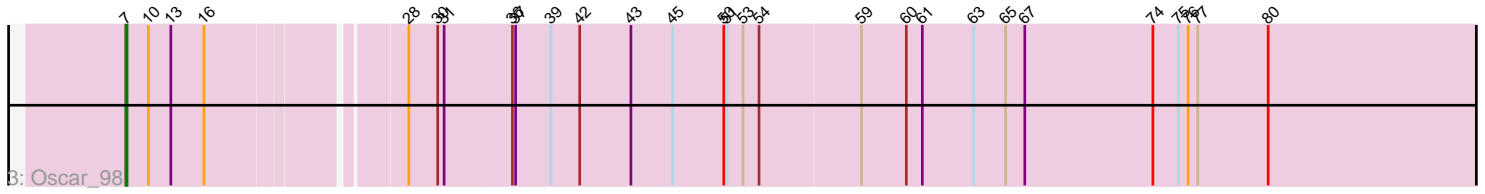
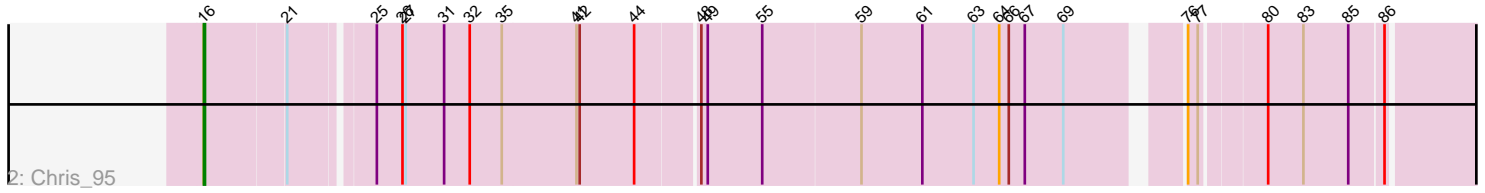
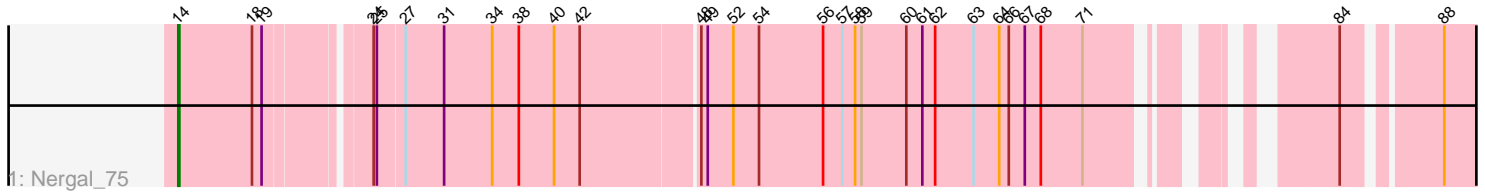


# Pham 297200



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 297200 Report

This analysis was run 04/25/26 on database version 644.

Pham number 297200 has 10 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Nergal\_75
- Track 2 : Chris\_95
- Track 3 : Oscar\_98
- Track 4 : Scarlett\_97, LeMond\_97, KiSi\_98
- Track 5 : Nibb\_97
- Track 6 : MarkPhew\_97
- Track 7 : SirPhilip\_94
- Track 8 : Marshawn\_90

### ***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 4 of the 10 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- KiSi\_98, LeMond\_97, Oscar\_98, Scarlett\_97,

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

- 

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

- Chris\_95, MarkPhew\_97, Marshawn\_90, Nergal\_75, Nibb\_97, SirPhilip\_94,

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

Start 7:

- Found in 4 of 10 ( 40.0% ) of genes in pham
- Manual Annotations of this start: 4 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: KiSi\_98 (K1), LeMond\_97 (K1), Oscar\_98 (K1), Scarlett\_97 (K1),

Start 9:

- Found in 1 of 10 ( 10.0% ) of genes in pham

- Manual Annotations of this start: 1 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: SirPhilip\_94 (K6),

Start 10:

- Found in 5 of 10 ( 50.0% ) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 20.0% of time when present
- Phage (with cluster) where this start called: Marshawn\_90 (K6),

Start 14:

- Found in 1 of 10 ( 10.0% ) of genes in pham
- Manual Annotations of this start: 1 of 10
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Nergal\_75 (AG),

Start 16:

- Found in 9 of 10 ( 90.0% ) of genes in pham
- Manual Annotations of this start: 3 of 10
- Called 33.3% of time when present
- Phage (with cluster) where this start called: Chris\_95 (K1), MarkPhew\_97 (K1), Nibb\_97 (K1),

### **Summary by clusters:**

There are 3 clusters represented in this pham: K1, K6, AG,

Info for manual annotations of cluster AG:

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

Info for manual annotations of cluster K1:

- Start number 7 was manually annotated 4 times for cluster K1.
- Start number 16 was manually annotated 3 times for cluster K1.

Info for manual annotations of cluster K6:

- Start number 9 was manually annotated 1 time for cluster K6.
- Start number 10 was manually annotated 1 time for cluster K6.

### **Gene Information:**

Gene: Chris\_95 Start: 58806, Stop: 59939, Start Num: 16

Candidate Starts for Chris\_95:

(Start: 16 @58806 has 3 MA's), (21, 58878), (25, 58947), (26, 58971), (27, 58974), (31, 59010), (32, 59034), (35, 59064), (41, 59133), (42, 59136), (44, 59187), (48, 59241), (49, 59247), (55, 59298), (59, 59388), (61, 59445), (63, 59493), (64, 59517), (66, 59526), (67, 59541), (69, 59577), (76, 59667), (77, 59676), (80, 59730), (83, 59763), (85, 59805), (86, 59835),

Gene: KiSi\_98 Start: 59172, Stop: 60431, Start Num: 7

Candidate Starts for KiSi\_98:

(Start: 7 @59172 has 4 MA's), (Start: 10 @59193 has 1 MA's), (13, 59214), (Start: 16 @59244 has 3 MA's), (28, 59409), (30, 59436), (31, 59442), (36, 59505), (37, 59508), (39, 59541), (42, 59568), (43,

59616), (45, 59655), (50, 59703), (51, 59706), (53, 59721), (54, 59736), (59, 59829), (60, 59871), (61, 59886), (63, 59934), (65, 59964), (67, 59982), (74, 60102), (75, 60126), (76, 60135), (77, 60144), (80, 60210), (83, 60243),

Gene: LeMond\_97 Start: 59129, Stop: 60388, Start Num: 7

Candidate Starts for LeMond\_97:

(Start: 7 @59129 has 4 MA's), (Start: 10 @59150 has 1 MA's), (13, 59171), (Start: 16 @59201 has 3 MA's), (28, 59366), (30, 59393), (31, 59399), (36, 59462), (37, 59465), (39, 59498), (42, 59525), (43, 59573), (45, 59612), (50, 59660), (51, 59663), (53, 59678), (54, 59693), (59, 59786), (60, 59828), (61, 59843), (63, 59891), (65, 59921), (67, 59939), (74, 60059), (75, 60083), (76, 60092), (77, 60101), (80, 60167), (83, 60200),

Gene: MarkPhew\_97 Start: 58854, Stop: 60011, Start Num: 16

Candidate Starts for MarkPhew\_97:

(1, 58713), (2, 58740), (6, 58791), (Start: 16 @58854 has 3 MA's), (21, 58926), (25, 58995), (27, 59022), (29, 59049), (31, 59058), (32, 59082), (35, 59112), (41, 59181), (42, 59184), (44, 59235), (48, 59289), (49, 59295), (52, 59319), (55, 59346), (59, 59436), (61, 59493), (64, 59565), (66, 59574), (67, 59589), (70, 59634), (76, 59721), (78, 59733), (80, 59790), (81, 59796),

Gene: Marshawn\_90 Start: 58111, Stop: 59241, Start Num: 10

Candidate Starts for Marshawn\_90:

(Start: 10 @58111 has 1 MA's), (13, 58132), (15, 58153), (Start: 16 @58162 has 3 MA's), (20, 58225), (25, 58321), (28, 58351), (31, 58384), (33, 58420), (41, 58507), (42, 58510), (43, 58558), (46, 58603), (47, 58609), (48, 58615), (52, 58645), (55, 58672), (56, 58729), (59, 58765), (60, 58807), (63, 58870), (64, 58894), (66, 58903), (73, 58993), (79, 59047), (82, 59059), (87, 59143),

Gene: Nergal\_75 Start: 50377, Stop: 51474, Start Num: 14

Candidate Starts for Nergal\_75:

(Start: 14 @50377 has 1 MA's), (18, 50446), (19, 50455), (24, 50539), (25, 50542), (27, 50566), (31, 50602), (34, 50647), (38, 50671), (40, 50704), (42, 50728), (48, 50833), (49, 50839), (52, 50863), (54, 50887), (56, 50947), (57, 50965), (58, 50977), (59, 50983), (60, 51025), (61, 51040), (62, 51052), (63, 51088), (64, 51112), (66, 51121), (67, 51136), (68, 51151), (71, 51190), (84, 51343), (88, 51418),

Gene: Nibb\_97 Start: 58597, Stop: 59775, Start Num: 16

Candidate Starts for Nibb\_97:

(8, 58543), (11, 58558), (12, 58561), (Start: 16 @58597 has 3 MA's), (21, 58669), (24, 58747), (27, 58777), (31, 58813), (32, 58837), (35, 58867), (41, 58936), (42, 58939), (44, 58990), (48, 59044), (55, 59101), (59, 59194), (61, 59251), (63, 59299), (64, 59323), (66, 59332), (67, 59347), (70, 59392), (72, 59434), (76, 59485), (78, 59497), (80, 59554), (81, 59560),

Gene: Oscar\_98 Start: 59051, Stop: 60310, Start Num: 7

Candidate Starts for Oscar\_98:

(Start: 7 @59051 has 4 MA's), (Start: 10 @59072 has 1 MA's), (13, 59093), (Start: 16 @59123 has 3 MA's), (28, 59288), (30, 59315), (31, 59321), (36, 59384), (37, 59387), (39, 59420), (42, 59447), (43, 59495), (45, 59534), (50, 59582), (51, 59585), (53, 59600), (54, 59615), (59, 59708), (60, 59750), (61, 59765), (63, 59813), (65, 59843), (67, 59861), (74, 59981), (75, 60005), (76, 60014), (77, 60023), (80, 60089),

Gene: Scarlett\_97 Start: 58920, Stop: 60179, Start Num: 7

Candidate Starts for Scarlett\_97:

(Start: 7 @58920 has 4 MA's), (Start: 10 @58941 has 1 MA's), (13, 58962), (Start: 16 @58992 has 3 MA's), (28, 59157), (30, 59184), (31, 59190), (36, 59253), (37, 59256), (39, 59289), (42, 59316), (43, 59364), (45, 59403), (50, 59451), (51, 59454), (53, 59469), (54, 59484), (59, 59577), (60, 59619), (61,

59634), (63, 59682), (65, 59712), (67, 59730), (74, 59850), (75, 59874), (76, 59883), (77, 59892), (80, 59958), (83, 59991),

Gene: SirPhilip\_94 Start: 58988, Stop: 60181, Start Num: 9

Candidate Starts for SirPhilip\_94:

(3, 58934), (4, 58949), (5, 58967), (Start: 9 @58988 has 1 MA's), (Start: 16 @59039 has 3 MA's), (17, 59054), (21, 59111), (22, 59123), (23, 59150), (25, 59180), (29, 59234), (31, 59243), (38, 59312), (41, 59366), (42, 59369), (44, 59420), (48, 59474), (49, 59480), (52, 59504), (55, 59531), (56, 59588), (57, 59606), (59, 59624), (60, 59666), (61, 59681), (63, 59729), (66, 59762), (67, 59777), (68, 59792), (70, 59822), (82, 59993),