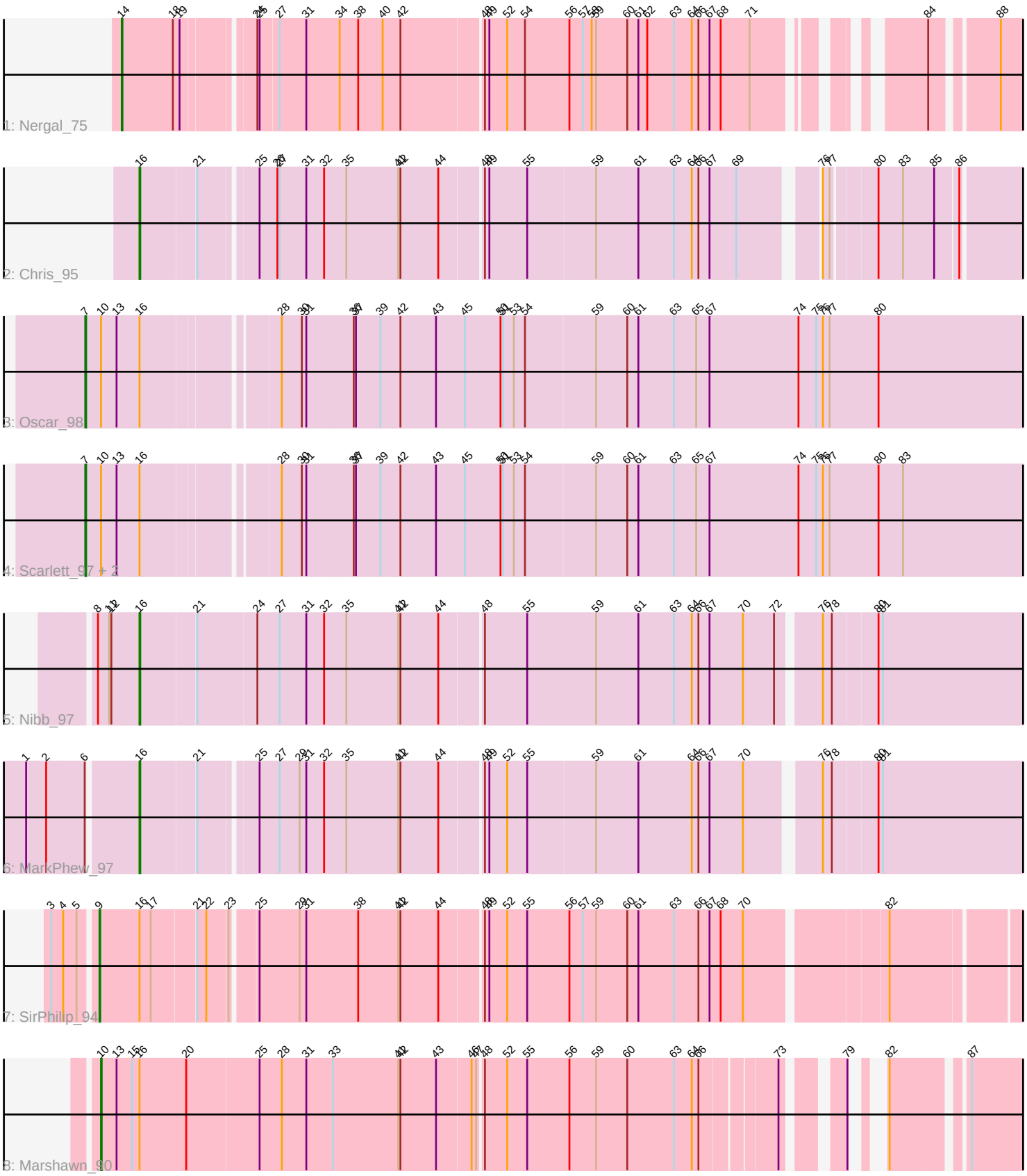
Pham 287199


1: Nergal_75
2: Chris_95
3: Oscar_98
4: Scarlett_97 + 2
5: Nibb_97
6: MarkPhew_97
7: SirPhilip_94
8: Marshawn_90

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 287199 Report

This analysis was run 03/28/26 on database version 641.

Pham number 287199 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),