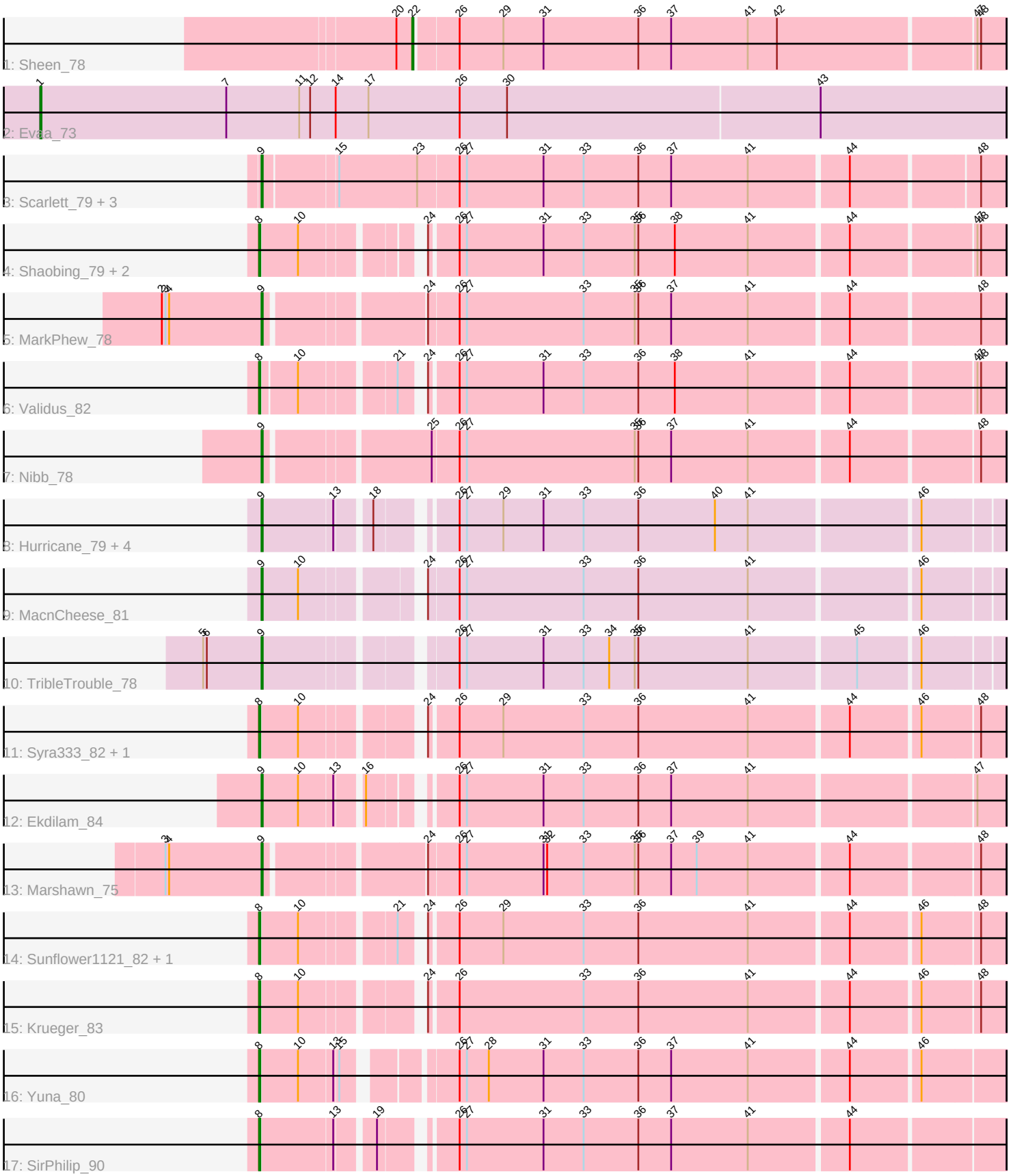
Pham 163855


1: Sheen_78
2: Evaa_73
3: Scarlett_79 + 3
4: Shaobing_79 + 2
5: MarkPhew_78
6: Validus_82
7: Nibb_78
8: Hurricane_79 + 4
9: MacnCheese_81
10: TribleTrouble_78
11: Syra333_82 + 1
12: Ekdilam_84
13: Marshawn_75
14: Sunflower1121_82 + 1
15: Krueger_83
16: Yuna_80
17: SirPhilip_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 163855 Report

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

Pham number 163855 has 28 members, 0 are drafts.

Phages represented in each track:
• Track 1 : Sheen_78
• Track 2 : Evaa_73
• Track 3 : Scarlett_79, LeMond_78, KiSi_79, Oscar_78
• Track 4 : Shaobing_79, Peanam_80, Niklas_80
• Track 5 : MarkPhew_78
• Track 6 : Validus_82
• Track 7 : Nibb_78
• Track 8 : Hurricane_79, Keshu_81, TBond007_75, Pixie_78, ShedlockHolmes_81
• Track 9 : MacnCheese_81
• Track 10 : TribleTrouble_78
• Track 11 : Syra333_82, Ximenita_84
• Track 12 : Ekdilam_84
• Track 13 : Marshawn_75
• Track 14 : Sunflower1121_82, Shadow1_83
• Track 15 : Krueger_83
• Track 16 : Yuna_80
• Track 17 : SirPhilip_90

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

The start number called the most often in the published annotations is 9, it was called in 15 of the 28 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Ekdilam_84, Hurricane_79, Keshu_81, KiSi_79, LeMond_78, MacnCheese_81, MarkPhew_78, Marshawn_75, Nibb_78, Oscar_78, Pixie_78, Scarlett_79, ShedlockHolmes_81, TBond007_75, TribleTrouble_78,

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

Genes that do not have the "Most Annotated" start:
• Evaa_73, Krueger_83, Niklas_80, Peanam_80, Shadow1_83, Shaobing_79, Sheen_78, SirPhilip_90, Sunflower1121_82, Syra333_82, Validus_82, Ximenita_84,

Yuna_80,

Summary by start number:

Start 1:
• Found in 1 of 28 (3.6%) of genes in pham
• Manual Annotations of this start: 1 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Evaa_73 (DR),

Start 8:
• Found in 11 of 28 (39.3%) of genes in pham
• Manual Annotations of this start: 11 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Krueger_83 (K6), Niklas_80 (K1), Peanam_80 (K1), Shadow1_83 (K6), Shaobing_79 (K1), SirPhilip_90 (K6), Sunflower1121_82 (K6), Syra333_82 (K6), Validus_82 (K1), Ximenita_84 (K6), Yuna_80 (K6),

Start 9:
• Found in 15 of 28 (53.6%) of genes in pham
• Manual Annotations of this start: 15 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Ekdilam_84 (K6), Hurricane_79 (K3), Keshu_81 (K3), KiSi_79 (K1), LeMond_78 (K1), MacnCheese_81 (K3), MarkPhew_78 (K1), Marshawn_75 (K6), Nibb_78 (K1), Oscar_78 (K1), Pixie_78 (K3), Scarlett_79 (K1), ShedlockHolmes_81 (K3), TBond007_75 (K3), TribleTrouble_78 (K3),

Start 22:
• Found in 1 of 28 (3.6%) of genes in pham
• Manual Annotations of this start: 1 of 28
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Sheen_78 (A7),

Summary by clusters:

There are 5 clusters represented in this pham: K3, K1, DR, K6, A7,

Info for manual annotations of cluster A7:
•Start number 22 was manually annotated 1 time for cluster A7.

Info for manual annotations of cluster DR:
•Start number 1 was manually annotated 1 time for cluster DR.

Info for manual annotations of cluster K1:
•Start number 8 was manually annotated 4 times for cluster K1.
•Start number 9 was manually annotated 6 times for cluster K1.

Info for manual annotations of cluster K3:
•Start number 9 was manually annotated 7 times for cluster K3.

Info for manual annotations of cluster K6:

•Start number 8 was manually annotated 7 times for cluster K6.
•Start number 9 was manually annotated 2 times for cluster K6.

Gene Information:

Gene: Ekdilam_84 Start: 58038, Stop: 58601, Start Num: 9
Candidate Starts for Ekdilam_84:
(Start: 9 @58038 has 15 MA's), (10, 58068), (13, 58095), (16, 58113), (26, 58167), (27, 58173), (31, 58236), (33, 58269), (36, 58314), (37, 58341), (41, 58404), (47, 58578),

Gene: Evaa_73 Start: 55309, Stop: 54518, Start Num: 1
Candidate Starts for Evaa_73:
(Start: 1 @55309 has 1 MA's), (7, 55156), (11, 55096), (12, 55087), (14, 55066), (17, 55039), (26, 54964), (30, 54925), (43, 54670),

Gene: Hurricane_79 Start: 51359, Stop: 51922, Start Num: 9
Candidate Starts for Hurricane_79:
(Start: 9 @51359 has 15 MA's), (13, 51416), (18, 51440), (26, 51491), (27, 51497), (29, 51527), (31, 51560), (33, 51593), (36, 51638), (40, 51701), (41, 51728), (46, 51860),

Gene: Keshu_81 Start: 51550, Stop: 52113, Start Num: 9
Candidate Starts for Keshu_81:
(Start: 9 @51550 has 15 MA's), (13, 51607), (18, 51631), (26, 51682), (27, 51688), (29, 51718), (31, 51751), (33, 51784), (36, 51829), (40, 51892), (41, 51919), (46, 52051),

Gene: KiSi_79 Start: 51113, Stop: 51700, Start Num: 9
Candidate Starts for KiSi_79:
(Start: 9 @51113 has 15 MA's), (15, 51170), (23, 51233), (26, 51266), (27, 51272), (31, 51335), (33, 51368), (36, 51413), (37, 51440), (41, 51503), (44, 51581), (48, 51680),

Gene: Krueger_83 Start: 51452, Stop: 52018, Start Num: 8
Candidate Starts for Krueger_83:
(Start: 8 @51452 has 11 MA's), (10, 51482), (24, 51563), (26, 51584), (33, 51686), (36, 51731), (41, 51821), (44, 51899), (46, 51953), (48, 51998),

Gene: LeMond_78 Start: 50717, Stop: 51304, Start Num: 9
Candidate Starts for LeMond_78:
(Start: 9 @50717 has 15 MA's), (15, 50774), (23, 50837), (26, 50870), (27, 50876), (31, 50939), (33, 50972), (36, 51017), (37, 51044), (41, 51107), (44, 51185), (48, 51284),

Gene: MacnCheese_81 Start: 51963, Stop: 52529, Start Num: 9
Candidate Starts for MacnCheese_81:
(Start: 9 @51963 has 15 MA's), (10, 51993), (24, 52074), (26, 52098), (27, 52104), (33, 52200), (36, 52245), (41, 52335), (46, 52467),

Gene: MarkPhew_78 Start: 50597, Stop: 51175, Start Num: 9
Candidate Starts for MarkPhew_78:
(2, 50516), (3, 50519), (4, 50522), (Start: 9 @50597 has 15 MA's), (24, 50714), (26, 50738), (27, 50744), (33, 50840), (35, 50882), (36, 50885), (37, 50912), (41, 50975), (44, 51053), (48, 51155),

Gene: Marshawn_75 Start: 50991, Stop: 51566, Start Num: 9

Candidate Starts for Marshawn_75:
(3, 50913), (4, 50916), (Start: 9 @50991 has 15 MA's), (24, 51108), (26, 51132), (27, 51138), (31, 51201), (32, 51204), (33, 51234), (35, 51276), (36, 51279), (37, 51306), (39, 51327), (41, 51369), (44, 51447), (48, 51546),

Gene: Nibb_78 Start: 50412, Stop: 50990, Start Num: 9
Candidate Starts for Nibb_78:
(Start: 9 @50412 has 15 MA's), (25, 50535), (26, 50556), (27, 50562), (35, 50700), (36, 50703), (37, 50730), (41, 50793), (44, 50871), (48, 50970),

Gene: Niklas_80 Start: 51901, Stop: 52464, Start Num: 8
Candidate Starts for Niklas_80:
(Start: 8 @51901 has 11 MA's), (10, 51931), (24, 52009), (26, 52030), (27, 52036), (31, 52099), (33, 52132), (35, 52174), (36, 52177), (38, 52207), (41, 52267), (44, 52345), (47, 52441), (48, 52444),

Gene: Oscar_78 Start: 50636, Stop: 51223, Start Num: 9
Candidate Starts for Oscar_78:
(Start: 9 @50636 has 15 MA's), (15, 50693), (23, 50756), (26, 50789), (27, 50795), (31, 50858), (33, 50891), (36, 50936), (37, 50963), (41, 51026), (44, 51104), (48, 51203),

Gene: Peanam_80 Start: 51859, Stop: 52422, Start Num: 8
Candidate Starts for Peanam_80:
(Start: 8 @51859 has 11 MA's), (10, 51889), (24, 51967), (26, 51988), (27, 51994), (31, 52057), (33, 52090), (35, 52132), (36, 52135), (38, 52165), (41, 52225), (44, 52303), (47, 52399), (48, 52402),

Gene: Pixie_78 Start: 50938, Stop: 51501, Start Num: 9
Candidate Starts for Pixie_78:
(Start: 9 @50938 has 15 MA's), (13, 50995), (18, 51019), (26, 51070), (27, 51076), (29, 51106), (31, 51139), (33, 51172), (36, 51217), (40, 51280), (41, 51307), (46, 51439),

Gene: Scarlett_79 Start: 50972, Stop: 51559, Start Num: 9
Candidate Starts for Scarlett_79:
(Start: 9 @50972 has 15 MA's), (15, 51029), (23, 51092), (26, 51125), (27, 51131), (31, 51194), (33, 51227), (36, 51272), (37, 51299), (41, 51362), (44, 51440), (48, 51539),

Gene: Shadow1_83 Start: 51593, Stop: 52159, Start Num: 8
Candidate Starts for Shadow1_83:
(Start: 8 @51593 has 11 MA's), (10, 51623), (21, 51692), (24, 51704), (26, 51725), (29, 51761), (33, 51827), (36, 51872), (41, 51962), (44, 52040), (46, 52094), (48, 52139),

Gene: Shaobing_79 Start: 51876, Stop: 52439, Start Num: 8
Candidate Starts for Shaobing_79:
(Start: 8 @51876 has 11 MA's), (10, 51906), (24, 51984), (26, 52005), (27, 52011), (31, 52074), (33, 52107), (35, 52149), (36, 52152), (38, 52182), (41, 52242), (44, 52320), (47, 52416), (48, 52419),

Gene: ShedlockHolmes_81 Start: 51455, Stop: 52018, Start Num: 9
Candidate Starts for ShedlockHolmes_81:
(Start: 9 @51455 has 15 MA's), (13, 51512), (18, 51536), (26, 51587), (27, 51593), (29, 51623), (31, 51656), (33, 51689), (36, 51734), (40, 51797), (41, 51824), (46, 51956),

Gene: Sheen_78 Start: 49775, Stop: 49302, Start Num: 22
Candidate Starts for Sheen_78:

(20, 49787), (Start: 22 @49775 has 1 MA's), (26, 49742), (29, 49706), (31, 49673), (36, 49595), (37, 49568), (41, 49505), (42, 49481), (47, 49325), (48, 49322),

Gene: SirPhilip_90 Start: 57157, Stop: 57723, Start Num: 8
Candidate Starts for SirPhilip_90:
(Start: 8 @57157 has 11 MA's), (13, 57214), (19, 57241), (26, 57289), (27, 57295), (31, 57358), (33, 57391), (36, 57436), (37, 57463), (41, 57526), (44, 57604),

Gene: Sunflower1121_82 Start: 51137, Stop: 51703, Start Num: 8
Candidate Starts for Sunflower1121_82:
(Start: 8 @51137 has 11 MA's), (10, 51167), (21, 51236), (24, 51248), (26, 51269), (29, 51305), (33, 51371), (36, 51416), (41, 51506), (44, 51584), (46, 51638), (48, 51683),

Gene: Syra333_82 Start: 51468, Stop: 52034, Start Num: 8
Candidate Starts for Syra333_82:
(Start: 8 @51468 has 11 MA's), (10, 51498), (24, 51579), (26, 51600), (29, 51636), (33, 51702), (36, 51747), (41, 51837), (44, 51915), (46, 51969), (48, 52014),

Gene: TBond007_75 Start: 50937, Stop: 51500, Start Num: 9
Candidate Starts for TBond007_75:
(Start: 9 @50937 has 15 MA's), (13, 50994), (18, 51018), (26, 51069), (27, 51075), (29, 51105), (31, 51138), (33, 51171), (36, 51216), (40, 51279), (41, 51306), (46, 51438),

Gene: TribleTrouble_78 Start: 51156, Stop: 51722, Start Num: 9
Candidate Starts for TribleTrouble_78:
(5, 51108), (6, 51111), (Start: 9 @51156 has 15 MA's), (26, 51291), (27, 51297), (31, 51360), (33, 51393), (34, 51414), (35, 51435), (36, 51438), (41, 51528), (45, 51612), (46, 51660),

Gene: Validus_82 Start: 52159, Stop: 52722, Start Num: 8
Candidate Starts for Validus_82:
(Start: 8 @52159 has 11 MA's), (10, 52186), (21, 52255), (24, 52267), (26, 52288), (27, 52294), (31, 52357), (33, 52390), (36, 52435), (38, 52465), (41, 52525), (44, 52603), (47, 52699), (48, 52702),

Gene: Ximenita_84 Start: 51791, Stop: 52357, Start Num: 8
Candidate Starts for Ximenita_84:
(Start: 8 @51791 has 11 MA's), (10, 51821), (24, 51902), (26, 51923), (29, 51959), (33, 52025), (36, 52070), (41, 52160), (44, 52238), (46, 52292), (48, 52337),

Gene: Yuna_80 Start: 52283, Stop: 52852, Start Num: 8
Candidate Starts for Yuna_80:
(Start: 8 @52283 has 11 MA's), (10, 52313), (13, 52340), (15, 52343), (26, 52418), (27, 52424), (28, 52442), (31, 52487), (33, 52520), (36, 52565), (37, 52592), (41, 52655), (44, 52733), (46, 52787),