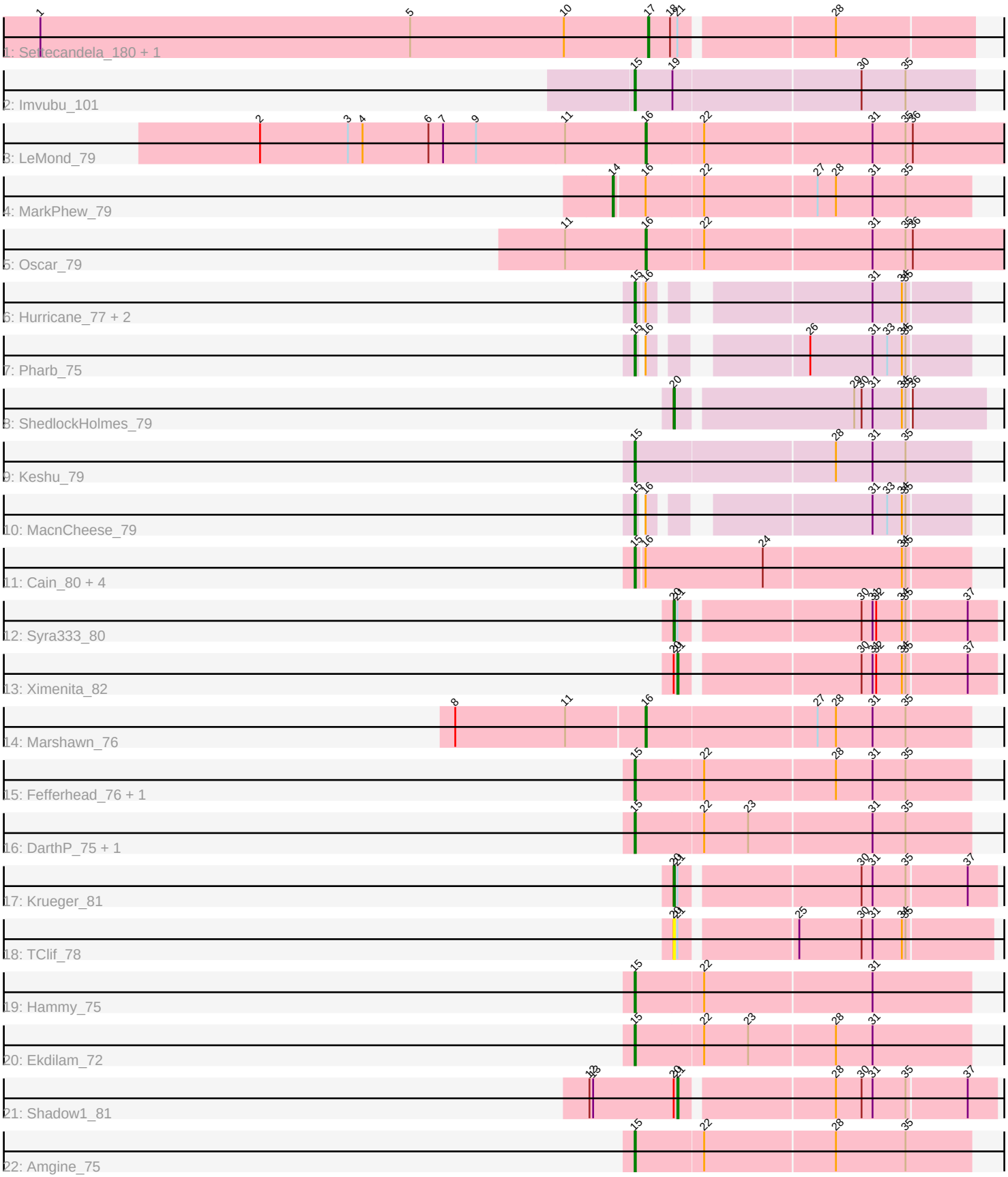
Pham 2867


1: Settecandela_180 + 1
2: Imvubu_101
3: LeMond_79
4: MarkPhew_79
5: Oscar_79
6: Hurricane_77 + 2
7: Pharb_75
8: ShedlockHolmes_79
9: Keshu_79
10: MacnCheese_79
11: Cain_80 + 4
12: Syra333_80
13: Ximenita_82
14: Marshawn_76
15: Fefferhead_76 + 1
16: DarthP_75 + 1
17: Krueger_81
18: TClif_78
19: Hammy_75
20: Ekdilam_72
21: Shadow1_81
22: Amgine_75

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 2867 Report

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

Pham number 2867 has 31 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Settecandela_180, Phrappuccino_180
• Track 2 : Imvubu_101
• Track 3 : LeMond_79
• Track 4 : MarkPhew_79
• Track 5 : Oscar_79
• Track 6 : Hurricane_77, TBond007_73, Pixie_76
• Track 7 : Pharb_75
• Track 8 : ShedlockHolmes_79
• Track 9 : Keshu_79
• Track 10 : MacnCheese_79
• Track 11 : Cain_80, PhelpsODU_79, Bryler_80, Unicorn_79, Phrank_80
• Track 12 : Syra333_80
• Track 13 : Ximenita_82
• Track 14 : Marshawn_76
• Track 15 : Fefferhead_76, Ellie_73
• Track 16 : DarthP_75, Amohnition_75
• Track 17 : Krueger_81
• Track 18 : TClif_78
• Track 19 : Hammy_75
• Track 20 : Ekdilam_72
• Track 21 : Shadow1_81
• Track 22 : Amgine_75

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

The start number called the most often in the published annotations is 15, it was called in 19 of the 30 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Amgine_75, Amohnition_75, Bryler_80, Cain_80, DarthP_75, Ekdilam_72, Ellie_73, Fefferhead_76, Hammy_75, Hurricane_77, Imvubu_101, Keshu_79, MacnCheese_79, Pharb_75, PhelpsODU_79, Phrank_80, Pixie_76, TBond007_73, Unicorn_79,

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

Genes that do not have the "Most Annotated" start:
• Krueger_81, LeMond_79, MarkPhew_79, Marshawn_76, Oscar_79, Phrappuccino_180, Settecandela_180, Shadow1_81, ShedlockHolmes_79, Syra333_80, TClif_78, Ximenita_82,

Summary by start number:

Start 14:
• Found in 1 of 31 (3.2%) of genes in pham
• Manual Annotations of this start: 1 of 30
• Called 100.0% of time when present
• Phage (with cluster) where this start called: MarkPhew_79 (K1),

Start 15:
• Found in 19 of 31 (61.3%) of genes in pham
• Manual Annotations of this start: 19 of 30
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Amgine_75 (K6), Amohnition_75 (K6), Bryler_80 (K6), Cain_80 (K6), DarthP_75 (K6), Ekdilam_72 (K6), Ellie_73 (K6), Fefferhead_76 (K6), Hammy_75 (K6), Hurricane_77 (K3), Imvubu_101 (B10), Keshu_79 (K3), MacnCheese_79 (K3), Pharb_75 (K3), PhelpsODU_79 (K6), Phrank_80 (K6), Pixie_76 (K3), TBond007_73 (K3), Unicorn_79 (K6),

Start 16:
• Found in 14 of 31 (45.2%) of genes in pham
• Manual Annotations of this start: 3 of 30
• Called 21.4% of time when present
• Phage (with cluster) where this start called: LeMond_79 (K1), Marshawn_76 (K6), Oscar_79 (K1),

Start 17:
• Found in 2 of 31 (6.5%) of genes in pham
• Manual Annotations of this start: 2 of 30
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Phrappuccino_180 (AA), Settecandela_180 (AA),

Start 20:
• Found in 6 of 31 (19.4%) of genes in pham
• Manual Annotations of this start: 3 of 30
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Krueger_81 (K6), ShedlockHolmes_79 (K3), Syra333_80 (K6), TClif_78 (K6),

Start 21:
• Found in 7 of 31 (22.6%) of genes in pham
• Manual Annotations of this start: 2 of 30
• Called 28.6% of time when present
• Phage (with cluster) where this start called: Shadow1_81 (K6), Ximenita_82 (K6),

Summary by clusters:

There are 5 clusters represented in this pham: AA, K3, K1, K6, B10,

Info for manual annotations of cluster AA:
•Start number 17 was manually annotated 2 times for cluster AA.

Info for manual annotations of cluster B10:
•Start number 15 was manually annotated 1 time for cluster B10.

Info for manual annotations of cluster K1:
•Start number 14 was manually annotated 1 time for cluster K1.
•Start number 16 was manually annotated 2 times for cluster K1.

Info for manual annotations of cluster K3:
•Start number 15 was manually annotated 6 times for cluster K3.
•Start number 20 was manually annotated 1 time for cluster K3.

Info for manual annotations of cluster K6:
•Start number 15 was manually annotated 12 times for cluster K6.
•Start number 16 was manually annotated 1 time for cluster K6.
•Start number 20 was manually annotated 2 times for cluster K6.
•Start number 21 was manually annotated 2 times for cluster K6.

Gene Information:

Gene: Amgine_75 Start: 51407, Stop: 51676, Start Num: 15
Candidate Starts for Amgine_75:
(Start: 15 @51407 has 19 MA's), (22, 51461), (28, 51566), (35, 51623),

Gene: Amohnition_75 Start: 51302, Stop: 51571, Start Num: 15
Candidate Starts for Amohnition_75:
(Start: 15 @51302 has 19 MA's), (22, 51356), (23, 51392), (31, 51491), (35, 51518),

Gene: Bryler_80 Start: 50339, Stop: 50605, Start Num: 15
Candidate Starts for Bryler_80:
(Start: 15 @50339 has 19 MA's), (Start: 16 @50345 has 3 MA's), (24, 50441), (34, 50552), (35, 50555),

Gene: Cain_80 Start: 50327, Stop: 50593, Start Num: 15
Candidate Starts for Cain_80:
(Start: 15 @50327 has 19 MA's), (Start: 16 @50333 has 3 MA's), (24, 50429), (34, 50540), (35, 50543),

Gene: DarthP_75 Start: 51155, Stop: 51424, Start Num: 15
Candidate Starts for DarthP_75:
(Start: 15 @51155 has 19 MA's), (22, 51209), (23, 51245), (31, 51344), (35, 51371),

Gene: Ekdilam_72 Start: 51375, Stop: 51644, Start Num: 15
Candidate Starts for Ekdilam_72:
(Start: 15 @51375 has 19 MA's), (22, 51429), (23, 51465), (28, 51534), (31, 51564),

Gene: Ellie_73 Start: 50576, Stop: 50845, Start Num: 15
Candidate Starts for Ellie_73:
(Start: 15 @50576 has 19 MA's), (22, 50630), (28, 50735), (31, 50765), (35, 50792),

Gene: Fefferhead_76 Start: 50637, Stop: 50906, Start Num: 15
Candidate Starts for Fefferhead_76:
(Start: 15 @50637 has 19 MA's), (22, 50691), (28, 50796), (31, 50826), (35, 50853),

Gene: Hammy_75 Start: 51139, Stop: 51408, Start Num: 15
Candidate Starts for Hammy_75:
(Start: 15 @51139 has 19 MA's), (22, 51193), (31, 51328),

Gene: Hurricane_77 Start: 50725, Stop: 50961, Start Num: 15
Candidate Starts for Hurricane_77:
(Start: 15 @50725 has 19 MA's), (Start: 16 @50731 has 3 MA's), (31, 50884), (34, 50908), (35, 50911),

Gene: Imvubu_101 Start: 68837, Stop: 68565, Start Num: 15
Candidate Starts for Imvubu_101:
(Start: 15 @68837 has 19 MA's), (19, 68807), (30, 68657), (35, 68621),

Gene: Keshu_79 Start: 50883, Stop: 51152, Start Num: 15
Candidate Starts for Keshu_79:
(Start: 15 @50883 has 19 MA's), (28, 51042), (31, 51072), (35, 51099),

Gene: Krueger_81 Start: 50851, Stop: 51099, Start Num: 20
Candidate Starts for Krueger_81:
(Start: 20 @50851 has 3 MA's), (Start: 21 @50854 has 2 MA's), (30, 50992), (31, 51001), (35, 51028), (37, 51076),

Gene: LeMond_79 Start: 51424, Stop: 51774, Start Num: 16
Candidate Starts for LeMond_79:
(2, 51109), (3, 51181), (4, 51193), (6, 51247), (7, 51259), (9, 51286), (11, 51358), (Start: 16 @51424 has 3 MA's), (22, 51469), (31, 51604), (35, 51631), (36, 51637),

Gene: MacnCheese_79 Start: 51340, Stop: 51573, Start Num: 15
Candidate Starts for MacnCheese_79:
(Start: 15 @51340 has 19 MA's), (Start: 16 @51343 has 3 MA's), (31, 51496), (33, 51508), (34, 51520), (35, 51523),

Gene: MarkPhew_79 Start: 51268, Stop: 51552, Start Num: 14
Candidate Starts for MarkPhew_79:
(Start: 14 @51268 has 1 MA's), (Start: 16 @51292 has 3 MA's), (22, 51337), (27, 51427), (28, 51442), (31, 51472), (35, 51499),

Gene: Marshawn_76 Start: 51732, Stop: 51992, Start Num: 16
Candidate Starts for Marshawn_76:
(8, 51579), (11, 51669), (Start: 16 @51732 has 3 MA's), (27, 51867), (28, 51882), (31, 51912), (35, 51939),

Gene: Oscar_79 Start: 51344, Stop: 51694, Start Num: 16
Candidate Starts for Oscar_79:

(11, 51278), (Start: 16 @51344 has 3 MA's), (22, 51389), (31, 51524), (35, 51551), (36, 51557),

Gene: Pharb_75 Start: 50008, Stop: 50241, Start Num: 15
Candidate Starts for Pharb_75:
(Start: 15 @50008 has 19 MA's), (Start: 16 @50011 has 3 MA's), (26, 50113), (31, 50164), (33, 50176), (34, 50188), (35, 50191),

Gene: PhelpsODU_79 Start: 50454, Stop: 50720, Start Num: 15
Candidate Starts for PhelpsODU_79:
(Start: 15 @50454 has 19 MA's), (Start: 16 @50460 has 3 MA's), (24, 50556), (34, 50667), (35, 50670),

Gene: Phrank_80 Start: 50314, Stop: 50580, Start Num: 15
Candidate Starts for Phrank_80:
(Start: 15 @50314 has 19 MA's), (Start: 16 @50320 has 3 MA's), (24, 50416), (34, 50527), (35, 50530),

Gene: Phrappuccino_180 Start: 118884, Stop: 119135, Start Num: 17
Candidate Starts for Phrappuccino_180:
(1, 118386), (5, 118689), (10, 118815), (Start: 17 @118884 has 2 MA's), (18, 118902), (Start: 21 @118908 has 2 MA's), (28, 119025),

Gene: Pixie_76 Start: 50303, Stop: 50539, Start Num: 15
Candidate Starts for Pixie_76:
(Start: 15 @50303 has 19 MA's), (Start: 16 @50309 has 3 MA's), (31, 50462), (34, 50486), (35, 50489),

Gene: Settecandela_180 Start: 118884, Stop: 119135, Start Num: 17
Candidate Starts for Settecandela_180:
(1, 118386), (5, 118689), (10, 118815), (Start: 17 @118884 has 2 MA's), (18, 118902), (Start: 21 @118908 has 2 MA's), (28, 119025),

Gene: Shadow1_81 Start: 50995, Stop: 51240, Start Num: 21
Candidate Starts for Shadow1_81:
(12, 50923), (13, 50926), (Start: 20 @50992 has 3 MA's), (Start: 21 @50995 has 2 MA's), (28, 51112), (30, 51133), (31, 51142), (35, 51169), (37, 51217),

Gene: ShedlockHolmes_79 Start: 50808, Stop: 51050, Start Num: 20
Candidate Starts for ShedlockHolmes_79:
(Start: 20 @50808 has 3 MA's), (29, 50946), (30, 50952), (31, 50961), (34, 50985), (35, 50988), (36, 50991),

Gene: Syra333_80 Start: 50865, Stop: 51113, Start Num: 20
Candidate Starts for Syra333_80:
(Start: 20 @50865 has 3 MA's), (Start: 21 @50868 has 2 MA's), (30, 51006), (31, 51015), (32, 51018), (34, 51039), (35, 51042), (37, 51090),

Gene: TBond007_73 Start: 50302, Stop: 50538, Start Num: 15
Candidate Starts for TBond007_73:
(Start: 15 @50302 has 19 MA's), (Start: 16 @50308 has 3 MA's), (31, 50461), (34, 50485), (35, 50488),

Gene: TClif_78 Start: 50601, Stop: 50846, Start Num: 20

Candidate Starts for TClif_78:
(Start: 20 @50601 has 3 MA's), (Start: 21 @50604 has 2 MA's), (25, 50691), (30, 50742), (31, 50751), (34, 50775), (35, 50778),

Gene: Unicorn_79 Start: 50454, Stop: 50720, Start Num: 15
Candidate Starts for Unicorn_79:
(Start: 15 @50454 has 19 MA's), (Start: 16 @50460 has 3 MA's), (24, 50556), (34, 50667), (35, 50670),

Gene: Ximenita_82 Start: 51191, Stop: 51436, Start Num: 21
Candidate Starts for Ximenita_82:
(Start: 20 @51188 has 3 MA's), (Start: 21 @51191 has 2 MA's), (30, 51329), (31, 51338), (32, 51341), (34, 51362), (35, 51365), (37, 51413),