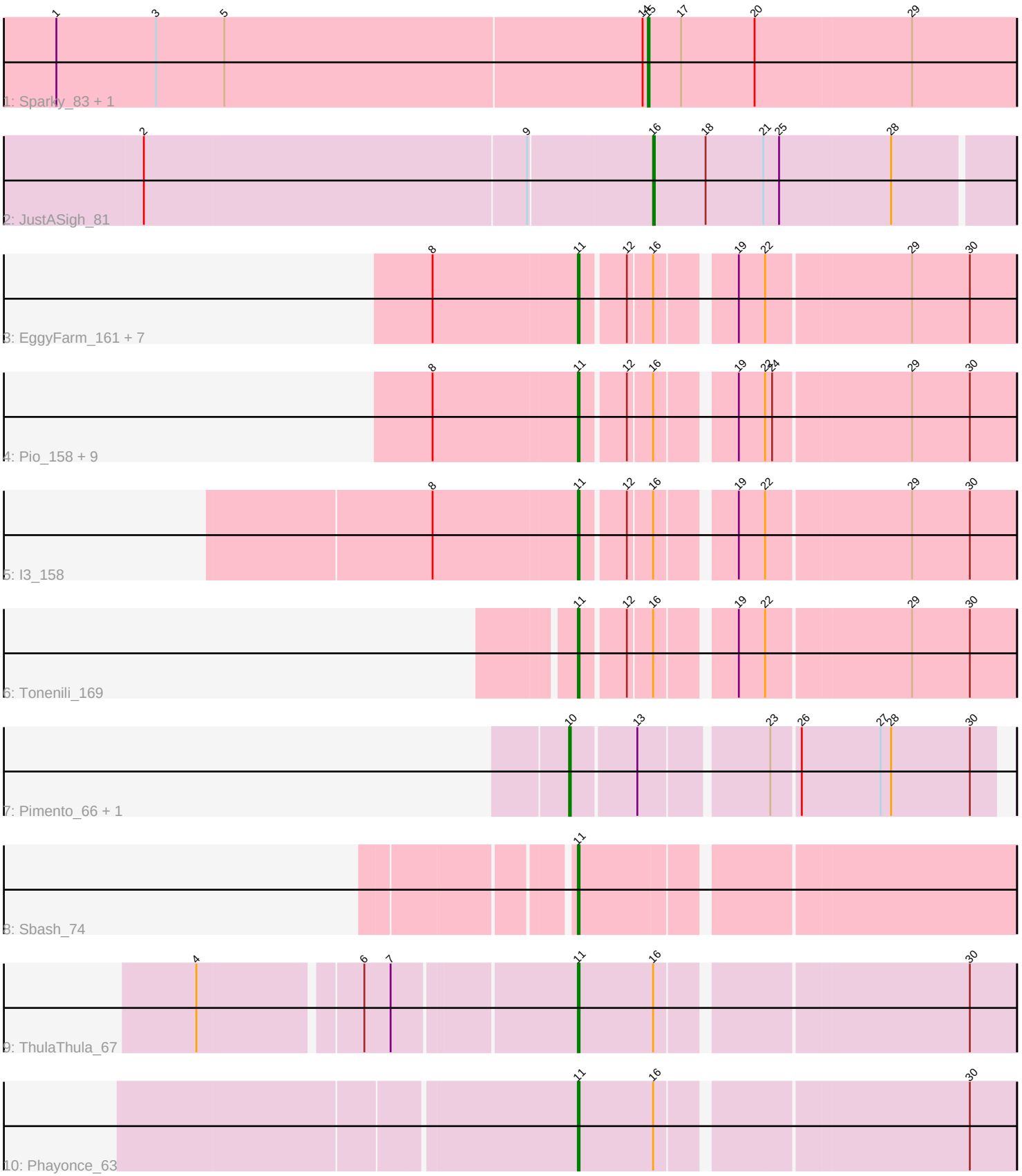
Pham 331131


1
3
5
14
15
17
20
29
1: Sparky_83 + 1
2
9
16
18
21
25
28
2: JustASigh_81
8
11
12
16
19
22
29
30
3: EggyFarm_161 + 7
8
11
12
16
19
22
24
29
30
4: Pio_158 + 9
8
11
12
16
19
22
29
30
5: I3_158
11
12
16
19
22
29
30
6: Tonenili_169
10
13
23
26
27
28
30
7: Pimento_66 + 1
11
8: Sbash_74
4
6
7
11
16
30
9: ThulaThula_67
11
16
30
10: Phayonce_63

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 331131 Report

This analysis was run 09/05/26 on database version 662.

Pham number 331131 has 28 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Sparky_83, Farewell_84
• Track 2 : JustASigh_81
• Track 3 : EggyFarm_161, Roots515_152, BigCity_161, Bigswole_156, Grasshills_160, Rahel_152, Shrimp_153, Bangla1971_154
• Track 4 : Pio_158, Burrough_154, DTDevon_154, Gabriel_153, Littleton_153, Drazdys_151, Tortoise16_150, ArcherS7_152, Breeniome_153, Erdmann_153
• Track 5 : I3_158
• Track 6 : Tonenili_169
• Track 7 : Pimento_66, Bock_65
• Track 8 : Sbash_74
• Track 9 : ThulaThula_67
• Track 10 : Phayonce_63

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

The start number called the most often in the published annotations is 11, it was called in 20 of the 25 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• ArcherS7_152, Bangla1971_154, BigCity_161, Bigswole_156, Breeniome_153, Burrough_154, DTDevon_154, Drazdys_151, EggyFarm_161, Erdmann_153, Gabriel_153, Grasshills_160, I3_158, Littleton_153, Phayonce_63, Pio_158, Rahel_152, Roots515_152, Sbash_74, Shrimp_153, ThulaThula_67, Tonenili_169, Tortoise16_150,

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

Genes that do not have the "Most Annotated" start:
• Bock_65, Farewell_84, JustASigh_81, Pimento_66, Sparky_83,

Summary by start number:

Start 10:

• Found in 2 of 28 (7.1%) of genes in pham
• Manual Annotations of this start: 2 of 25
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Bock_65 (DI), Pimento_66 (DI),

Start 11:
• Found in 23 of 28 (82.1%) of genes in pham
• Manual Annotations of this start: 20 of 25
• Called 100.0% of time when present
• Phage (with cluster) where this start called: ArcherS7_152 (C1), Bangla1971_154 (C1), BigCity_161 (C1), Bigswole_156 (C1), Breeniome_153 (C1), Burrough_154 (C1), DTDevon_154 (C1), Drazdys_151 (C1), EggyFarm_161 (C1), Erdmann_153 (C1), Gabriel_153 (C1), Grasshills_160 (C1), I3_158 (C1), Littleton_153 (C1), Phayonce_63 (P5), Pio_158 (C1), Rahel_152 (C1), Roots515_152 (C1), Sbash_74 (I2), Shrimp_153 (C1), ThulaThula_67 (P5), Tonenili_169 (C1), Tortoise16_150 (C1),

Start 15:
• Found in 2 of 28 (7.1%) of genes in pham
• Manual Annotations of this start: 2 of 25
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Farewell_84 (AF), Sparky_83 (AF),

Start 16:
• Found in 23 of 28 (82.1%) of genes in pham
• Manual Annotations of this start: 1 of 25
• Called 4.3% of time when present
• Phage (with cluster) where this start called: JustASigh_81 (AH),

Summary by clusters:

There are 6 clusters represented in this pham: AF, AH, I2, DI, C1, P5,

Info for manual annotations of cluster AF:
•Start number 15 was manually annotated 2 times for cluster AF.

Info for manual annotations of cluster AH:
•Start number 16 was manually annotated 1 time for cluster AH.

Info for manual annotations of cluster C1:
•Start number 11 was manually annotated 17 times for cluster C1.

Info for manual annotations of cluster DI:
•Start number 10 was manually annotated 2 times for cluster DI.

Info for manual annotations of cluster I2:
•Start number 11 was manually annotated 1 time for cluster I2.

Info for manual annotations of cluster P5:
•Start number 11 was manually annotated 2 times for cluster P5.

Gene Information:

Gene: ArcherS7_152 Start: 90373, Stop: 90600, Start Num: 11
Candidate Starts for ArcherS7_152:
(8, 90292), (Start: 11 @90373 has 20 MA's), (12, 90397), (Start: 16 @90409 has 1 MA's), (19, 90448), (22, 90463), (24, 90466), (29, 90541), (30, 90574),

Gene: Bangla1971_154 Start: 90500, Stop: 90727, Start Num: 11
Candidate Starts for Bangla1971_154:
(8, 90419), (Start: 11 @90500 has 20 MA's), (12, 90524), (Start: 16 @90536 has 1 MA's), (19, 90575), (22, 90590), (29, 90668), (30, 90701),

Gene: BigCity_161 Start: 93484, Stop: 93711, Start Num: 11
Candidate Starts for BigCity_161:
(8, 93403), (Start: 11 @93484 has 20 MA's), (12, 93508), (Start: 16 @93520 has 1 MA's), (19, 93559), (22, 93574), (29, 93652), (30, 93685),

Gene: Bigswole_156 Start: 92766, Stop: 92993, Start Num: 11
Candidate Starts for Bigswole_156:
(8, 92685), (Start: 11 @92766 has 20 MA's), (12, 92790), (Start: 16 @92802 has 1 MA's), (19, 92841), (22, 92856), (29, 92934), (30, 92967),

Gene: Bock_65 Start: 42094, Stop: 42321, Start Num: 10
Candidate Starts for Bock_65:
(Start: 10 @42094 has 2 MA's), (13, 42130), (23, 42196), (26, 42211), (27, 42256), (28, 42262), (30, 42307),

Gene: Breeniome_153 Start: 89806, Stop: 90033, Start Num: 11
Candidate Starts for Breeniome_153:
(8, 89725), (Start: 11 @89806 has 20 MA's), (12, 89830), (Start: 16 @89842 has 1 MA's), (19, 89881), (22, 89896), (24, 89899), (29, 89974), (30, 90007),

Gene: Burrough_154 Start: 91957, Stop: 92184, Start Num: 11
Candidate Starts for Burrough_154:
(8, 91876), (Start: 11 @91957 has 20 MA's), (12, 91981), (Start: 16 @91993 has 1 MA's), (19, 92032), (22, 92047), (24, 92050), (29, 92125), (30, 92158),

Gene: DTDevon_154 Start: 92288, Stop: 92515, Start Num: 11
Candidate Starts for DTDevon_154:
(8, 92207), (Start: 11 @92288 has 20 MA's), (12, 92312), (Start: 16 @92324 has 1 MA's), (19, 92363), (22, 92378), (24, 92381), (29, 92456), (30, 92489),

Gene: Drazdys_151 Start: 90209, Stop: 90436, Start Num: 11
Candidate Starts for Drazdys_151:
(8, 90128), (Start: 11 @90209 has 20 MA's), (12, 90233), (Start: 16 @90245 has 1 MA's), (19, 90284), (22, 90299), (24, 90302), (29, 90377), (30, 90410),

Gene: EggyFarm_161 Start: 93484, Stop: 93711, Start Num: 11
Candidate Starts for EggyFarm_161:
(8, 93403), (Start: 11 @93484 has 20 MA's), (12, 93508), (Start: 16 @93520 has 1 MA's), (19, 93559), (22, 93574), (29, 93652), (30, 93685),

Gene: Erdmann_153 Start: 91527, Stop: 91754, Start Num: 11
Candidate Starts for Erdmann_153:

(8, 91446), (Start: 11 @91527 has 20 MA's), (12, 91551), (Start: 16 @91563 has 1 MA's), (19, 91602), (22, 91617), (24, 91620), (29, 91695), (30, 91728),

Gene: Farewell_84 Start: 54857, Stop: 55063, Start Num: 15
Candidate Starts for Farewell_84:
(1, 54521), (3, 54578), (5, 54617), (14, 54854), (Start: 15 @54857 has 2 MA's), (17, 54875), (20, 54917), (29, 55004),

Gene: Gabriel_153 Start: 89781, Stop: 90008, Start Num: 11
Candidate Starts for Gabriel_153:
(8, 89700), (Start: 11 @89781 has 20 MA's), (12, 89805), (Start: 16 @89817 has 1 MA's), (19, 89856), (22, 89871), (24, 89874), (29, 89949), (30, 89982),

Gene: Grasshills_160 Start: 93484, Stop: 93711, Start Num: 11
Candidate Starts for Grasshills_160:
(8, 93403), (Start: 11 @93484 has 20 MA's), (12, 93508), (Start: 16 @93520 has 1 MA's), (19, 93559), (22, 93574), (29, 93652), (30, 93685),

Gene: I3_158 Start: 92010, Stop: 92237, Start Num: 11
Candidate Starts for I3_158:
(8, 91929), (Start: 11 @92010 has 20 MA's), (12, 92034), (Start: 16 @92046 has 1 MA's), (19, 92085), (22, 92100), (29, 92178), (30, 92211),

Gene: JustASigh_81 Start: 50306, Stop: 50506, Start Num: 16
Candidate Starts for JustASigh_81:
(2, 50021), (9, 50237), (Start: 16 @50306 has 1 MA's), (18, 50336), (21, 50369), (25, 50378), (28, 50441),

Gene: Littleton_153 Start: 90863, Stop: 91090, Start Num: 11
Candidate Starts for Littleton_153:
(8, 90782), (Start: 11 @90863 has 20 MA's), (12, 90887), (Start: 16 @90899 has 1 MA's), (19, 90938), (22, 90953), (24, 90956), (29, 91031), (30, 91064),

Gene: Phayonce_63 Start: 42906, Stop: 43139, Start Num: 11
Candidate Starts for Phayonce_63:
(Start: 11 @42906 has 20 MA's), (Start: 16 @42948 has 1 MA's), (30, 43113),

Gene: Pimento_66 Start: 41792, Stop: 42019, Start Num: 10
Candidate Starts for Pimento_66:
(Start: 10 @41792 has 2 MA's), (13, 41828), (23, 41894), (26, 41909), (27, 41954), (28, 41960), (30, 42005),

Gene: Pio_158 Start: 93812, Stop: 94039, Start Num: 11
Candidate Starts for Pio_158:
(8, 93731), (Start: 11 @93812 has 20 MA's), (12, 93836), (Start: 16 @93848 has 1 MA's), (19, 93887), (22, 93902), (24, 93905), (29, 93980), (30, 94013),

Gene: Rahel_152 Start: 90409, Stop: 90636, Start Num: 11
Candidate Starts for Rahel_152:
(8, 90328), (Start: 11 @90409 has 20 MA's), (12, 90433), (Start: 16 @90445 has 1 MA's), (19, 90484), (22, 90499), (29, 90577), (30, 90610),

Gene: Roots515_152 Start: 92189, Stop: 92416, Start Num: 11

Candidate Starts for Roots515_152:
(8, 92108), (Start: 11 @92189 has 20 MA's), (12, 92213), (Start: 16 @92225 has 1 MA's), (19, 92264), (22, 92279), (29, 92357), (30, 92390),

Gene: Sbash_74 Start: 47839, Stop: 48072, Start Num: 11
Candidate Starts for Sbash_74:
(Start: 11 @47839 has 20 MA's),

Gene: Shrimp_153 Start: 91527, Stop: 91754, Start Num: 11
Candidate Starts for Shrimp_153:
(8, 91446), (Start: 11 @91527 has 20 MA's), (12, 91551), (Start: 16 @91563 has 1 MA's), (19, 91602), (22, 91617), (29, 91695), (30, 91728),

Gene: Sparky_83 Start: 56451, Stop: 56657, Start Num: 15
Candidate Starts for Sparky_83:
(1, 56115), (3, 56172), (5, 56211), (14, 56448), (Start: 15 @56451 has 2 MA's), (17, 56469), (20, 56511), (29, 56598),

Gene: ThulaThula_67 Start: 44333, Stop: 44566, Start Num: 11
Candidate Starts for ThulaThula_67:
(4, 44132), (6, 44219), (7, 44234), (Start: 11 @44333 has 20 MA's), (Start: 16 @44375 has 1 MA's), (30, 44540),

Gene: Tonenili_169 Start: 94655, Stop: 94882, Start Num: 11
Candidate Starts for Tonenili_169:
(Start: 11 @94655 has 20 MA's), (12, 94679), (Start: 16 @94691 has 1 MA's), (19, 94730), (22, 94745), (29, 94823), (30, 94856),

Gene: Tortoise16_150 Start: 90636, Stop: 90863, Start Num: 11
Candidate Starts for Tortoise16_150:
(8, 90555), (Start: 11 @90636 has 20 MA's), (12, 90660), (Start: 16 @90672 has 1 MA's), (19, 90711), (22, 90726), (24, 90729), (29, 90804), (30, 90837),