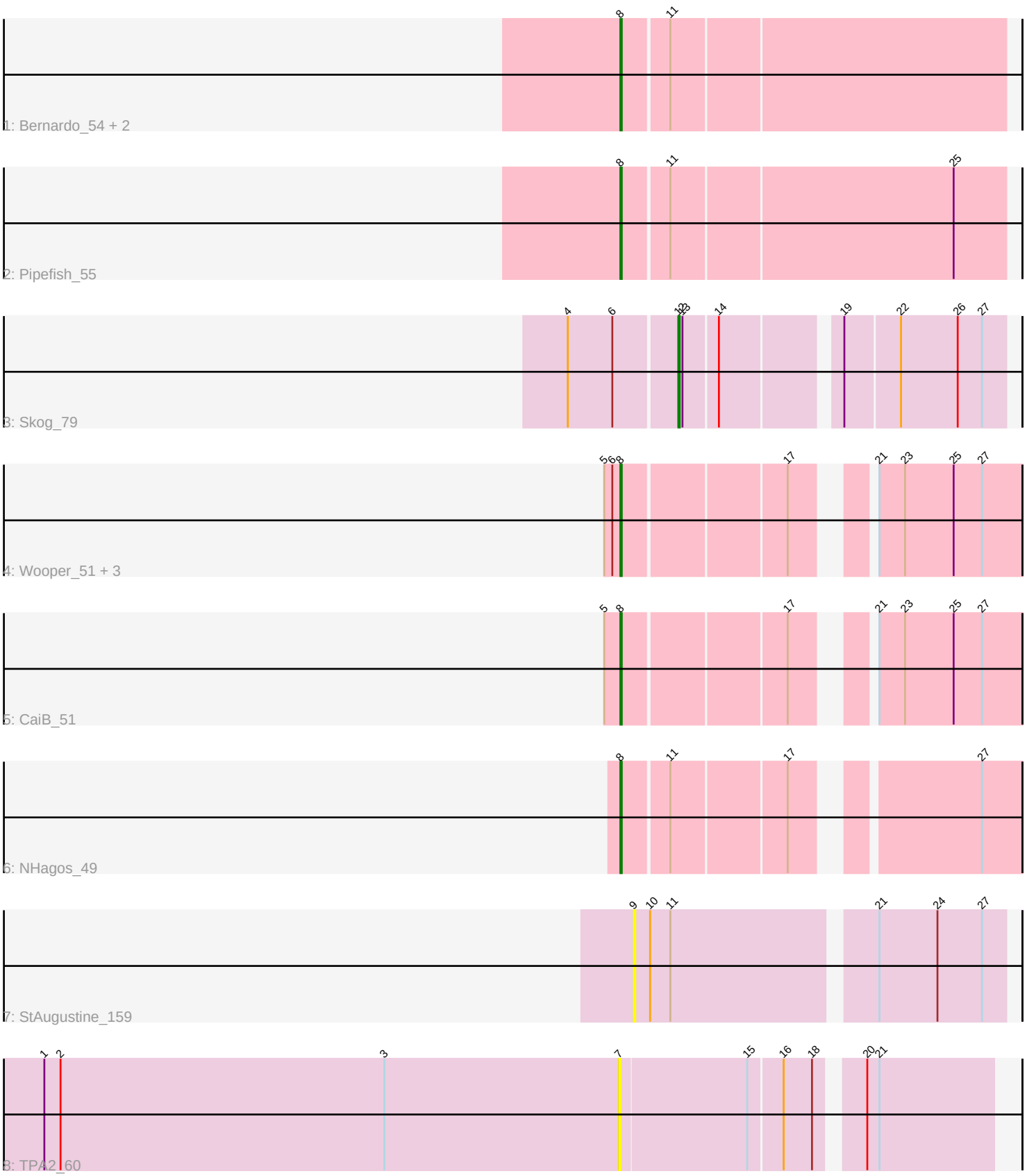
Pham 131171


8
11
1: Bernardo_54 + 2
8
11
25
2: Pipefish_55
4
6
12
13
14
19
22
26
27
3: Skog_79
5
6
8
17
21
23
25
27
4: Wooper_51 + 3
5
8
17
21
23
25
27
5: CaiB_51
8
11
17
27
6: NHagos_49
9
10
11
21
24
27
7: StAugustine_159
1
2
3
7
15
16
18
20
21
8: TPA2_60

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 131171 Report

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

Pham number 131171 has 13 members, 2 are drafts.

Phages represented in each track:
• Track 1 : Bernardo_54, Obutu_54, Compostia_53
• Track 2 : Pipefish_55
• Track 3 : Skog_79
• Track 4 : Wooper_51, CloverMinnie_50, AnarQue_50, MossRose_50
• Track 5 : CaiB_51
• Track 6 : NHagos_49
• Track 7 : StAugustine_159
• Track 8 : TPA2_60

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

The start number called the most often in the published annotations is 8, it was called in 10 of the 11 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• AnarQue_50, Bernardo_54, CaiB_51, CloverMinnie_50, Compostia_53, MossRose_50, NHagos_49, Obutu_54, Pipefish_55, Wooper_51,

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

Genes that do not have the "Most Annotated" start:
• Skog_79, StAugustine_159, TPA2_60,

Summary by start number:

Start 7:
• Found in 1 of 13 (7.7%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: TPA2_60 (singleton),

Start 8:
• Found in 10 of 13 (76.9%) of genes in pham

• Manual Annotations of this start: 10 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: AnarQue_50 (DR), Bernardo_54 (B3), CaiB_51 (DR), CloverMinnie_50 (DR), Compostia_53 (B3), MossRose_50 (DR), NHagos_49 (DR), Obutu_54 (B3), Pipefish_55 (B3), Wooper_51 (DR),

Start 9:
• Found in 1 of 13 (7.7%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: StAugustine_159 (singleton),

Start 12:
• Found in 1 of 13 (7.7%) of genes in pham
• Manual Annotations of this start: 1 of 11
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Skog_79 (DO),

Summary by clusters:

There are 4 clusters represented in this pham: DO, singleton, DR, B3,

Info for manual annotations of cluster B3:
•Start number 8 was manually annotated 4 times for cluster B3.

Info for manual annotations of cluster DO:
•Start number 12 was manually annotated 1 time for cluster DO.

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

Gene Information:

Gene: AnarQue_50 Start: 42911, Stop: 42654, Start Num: 8
Candidate Starts for AnarQue_50:
(5, 42923), (6, 42917), (Start: 8 @42911 has 10 MA's), (17, 42797), (21, 42758), (23, 42740), (25, 42704), (27, 42683),

Gene: Bernardo_54 Start: 47958, Stop: 47683, Start Num: 8
Candidate Starts for Bernardo_54:
(Start: 8 @47958 has 10 MA's), (11, 47925),

Gene: CaiB_51 Start: 43754, Stop: 43497, Start Num: 8
Candidate Starts for CaiB_51:
(5, 43766), (Start: 8 @43754 has 10 MA's), (17, 43640), (21, 43601), (23, 43583), (25, 43547), (27, 43526),

Gene: CloverMinnie_50 Start: 42837, Stop: 42580, Start Num: 8
Candidate Starts for CloverMinnie_50:
(5, 42849), (6, 42843), (Start: 8 @42837 has 10 MA's), (17, 42723), (21, 42684), (23, 42666), (25, 42630), (27, 42609),

Gene: Compostia_53 Start: 47959, Stop: 47684, Start Num: 8
Candidate Starts for Compostia_53:
(Start: 8 @47959 has 10 MA's), (11, 47926),

Gene: MossRose_50 Start: 42894, Stop: 42637, Start Num: 8
Candidate Starts for MossRose_50:
(5, 42906), (6, 42900), (Start: 8 @42894 has 10 MA's), (17, 42780), (21, 42741), (23, 42723), (25, 42687), (27, 42666),

Gene: NHagos_49 Start: 41887, Stop: 41630, Start Num: 8
Candidate Starts for NHagos_49:
(Start: 8 @41887 has 10 MA's), (11, 41854), (17, 41773), (27, 41659),

Gene: Obutu_54 Start: 47972, Stop: 47697, Start Num: 8
Candidate Starts for Obutu_54:
(Start: 8 @47972 has 10 MA's), (11, 47939),

Gene: Pipefish_55 Start: 48802, Stop: 48527, Start Num: 8
Candidate Starts for Pipefish_55:
(Start: 8 @48802 has 10 MA's), (11, 48769), (25, 48565),

Gene: Skog_79 Start: 33237, Stop: 33458, Start Num: 12
Candidate Starts for Skog_79:
(4, 33159), (6, 33192), (Start: 12 @33237 has 1 MA's), (13, 33240), (14, 33264), (19, 33342), (22, 33381), (26, 33423), (27, 33441),

Gene: StAugustine_159 Start: 87285, Stop: 87025, Start Num: 9
Candidate Starts for StAugustine_159:
(9, 87285), (10, 87273), (11, 87258), (21, 87117), (24, 87075), (27, 87042),

Gene: TPA2_60 Start: 47372, Stop: 47115, Start Num: 7
Candidate Starts for TPA2_60:
(1, 47798), (2, 47786), (3, 47546), (7, 47372), (15, 47279), (16, 47255), (18, 47234), (20, 47207), (21, 47198),

Gene: Wooper_51 Start: 43226, Stop: 42969, Start Num: 8
Candidate Starts for Wooper_51:
(5, 43238), (6, 43232), (Start: 8 @43226 has 10 MA's), (17, 43112), (21, 43073), (23, 43055), (25, 43019), (27, 42998),