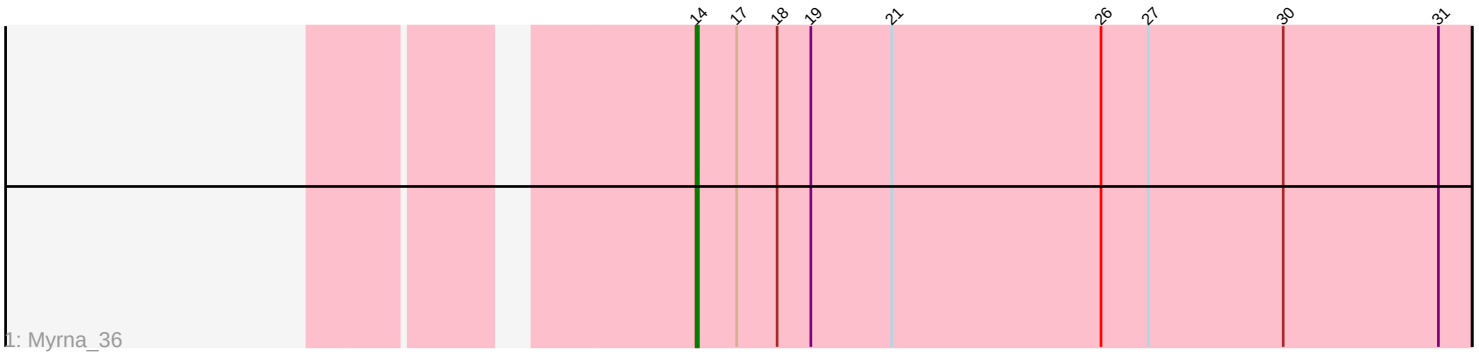
# Pham 107341


14
17
18
19
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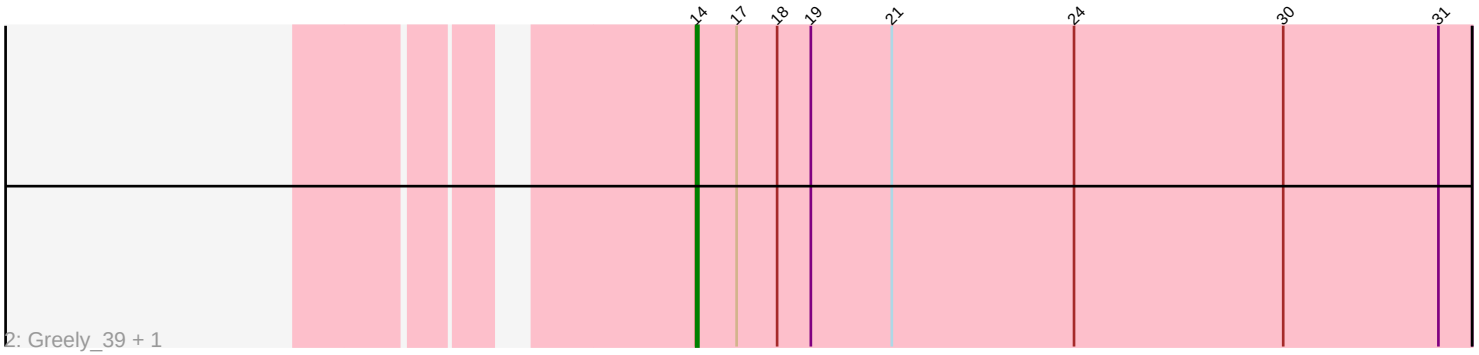
26
27
30
31
1: Myrna_36


14
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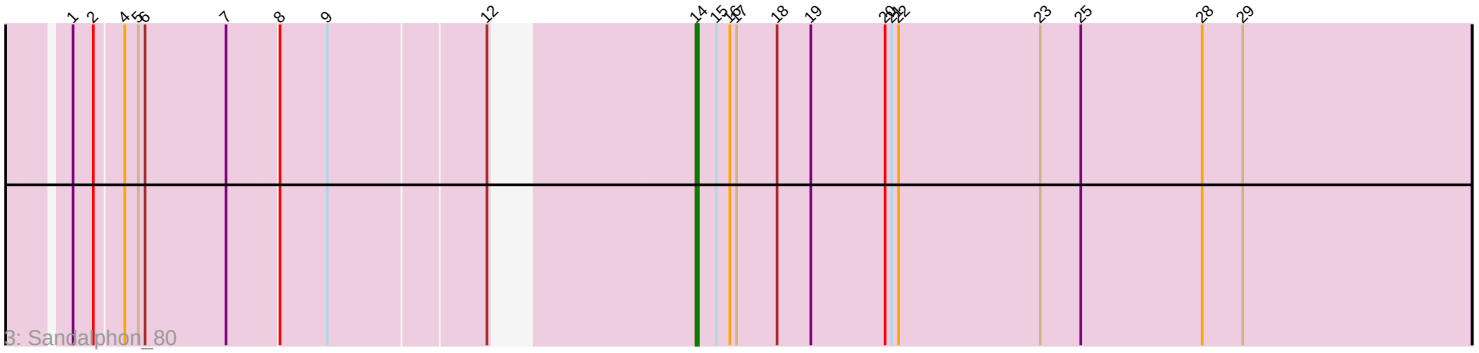
31
2: Greely_39 + 1


1
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4
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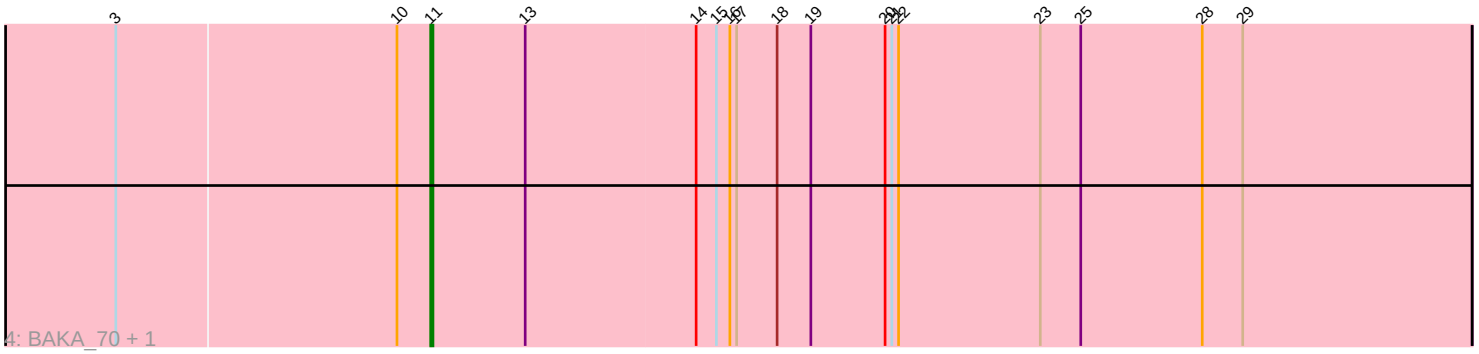
3: Sandalphon_80


3
10
11
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4: BAKA_70 + 1

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 107341 Report

This analysis was run 04/05/24 on database version 557.

Pham number 107341 has 6 members, 1 are drafts.

Phages represented in each track:
• Track 1 : Myrna_36
• Track 2 : Greely_39, Phabba_41
• Track 3 : Sandalphon_80
• Track 4 : BAKA_70, Pound_66

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

The start number called the most often in the published annotations is 14, it was called in 3 of the 5 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Greely_39, Myrna_36, Phabba_41, Sandalphon_80,

Genes that have the "Most Annotated" start but do not call it:
• BAKA_70, Pound_66,

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

**Summary by start number:**

Start 11:
• Found in 2 of 6 ( 33.3% ) of genes in pham
• Manual Annotations of this start: 2 of 5
• Called 100.0% of time when present
• Phage (with cluster) where this start called: BAKA_70 (J), Pound_66 (J),

Start 14:
• Found in 6 of 6 ( 100.0% ) of genes in pham
• Manual Annotations of this start: 3 of 5
• Called 66.7% of time when present
• Phage (with cluster) where this start called: Greely_39 (C2), Myrna_36 (C2), Phabba_41 (C2), Sandalphon_80 (F1),

**Summary by clusters:**

There are 3 clusters represented in this pham: C2, J, F1,

Info for manual annotations of cluster C2:
•Start number 14 was manually annotated 2 times for cluster C2.

Info for manual annotations of cluster F1:
•Start number 14 was manually annotated 1 time for cluster F1.

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

***Gene Information:***

Gene: BAKA_70 Start: 49215, Stop: 48754, Start Num: 11
Candidate Starts for BAKA_70:
(3, 49353), (10, 49230), (Start: 11 @49215 has 2 MA's), (13, 49173), (Start: 14 @49098 has 3 MA's), (15, 49089), (16, 49083), (17, 49080), (18, 49062), (19, 49047), (20, 49014), (21, 49011), (22, 49008), (23, 48945), (25, 48927), (28, 48873), (29, 48855),

Gene: Greely_39 Start: 15844, Stop: 16188, Start Num: 14
Candidate Starts for Greely_39:
(Start: 14 @15844 has 3 MA's), (17, 15862), (18, 15880), (19, 15895), (21, 15931), (24, 16012), (30, 16105), (31, 16174),

Gene: Myrna_36 Start: 16397, Stop: 16741, Start Num: 14
Candidate Starts for Myrna_36:
(Start: 14 @16397 has 3 MA's), (17, 16415), (18, 16433), (19, 16448), (21, 16484), (26, 16577), (27, 16598), (30, 16658), (31, 16727),

Gene: Phabba_41 Start: 16035, Stop: 16379, Start Num: 14
Candidate Starts for Phabba_41:
(Start: 14 @16035 has 3 MA's), (17, 16053), (18, 16071), (19, 16086), (21, 16122), (24, 16203), (30, 16296), (31, 16365),

Gene: Pound_66 Start: 50534, Stop: 50073, Start Num: 11
Candidate Starts for Pound_66:
(3, 50672), (10, 50549), (Start: 11 @50534 has 2 MA's), (13, 50492), (Start: 14 @50417 has 3 MA's), (15, 50408), (16, 50402), (17, 50399), (18, 50381), (19, 50366), (20, 50333), (21, 50330), (22, 50327), (23, 50264), (25, 50246), (28, 50192), (29, 50174),

Gene: Sandalphon_80 Start: 49794, Stop: 50138, Start Num: 14
Candidate Starts for Sandalphon_80:
(1, 49548), (2, 49557), (4, 49569), (5, 49575), (6, 49578), (7, 49614), (8, 49635), (9, 49656), (12, 49722), (Start: 14 @49794 has 3 MA's), (15, 49803), (16, 49809), (17, 49812), (18, 49830), (19, 49845), (20, 49878), (21, 49881), (22, 49884), (23, 49947), (25, 49965), (28, 50019), (29, 50037),