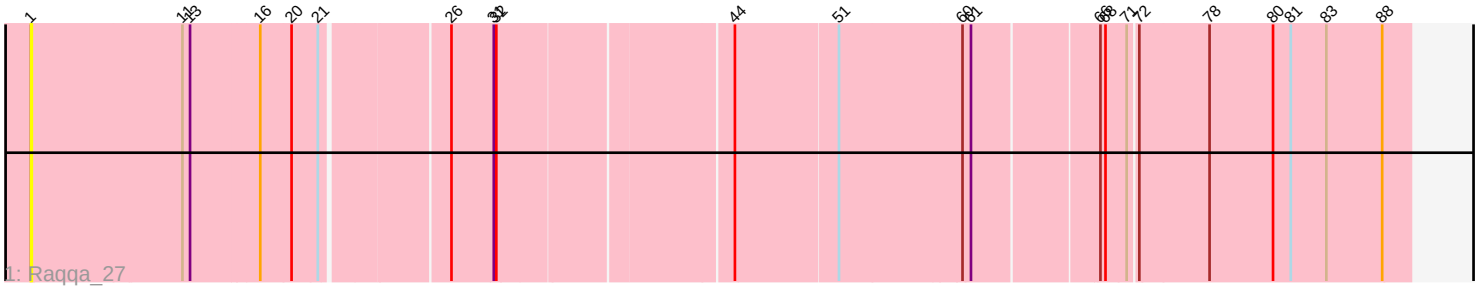
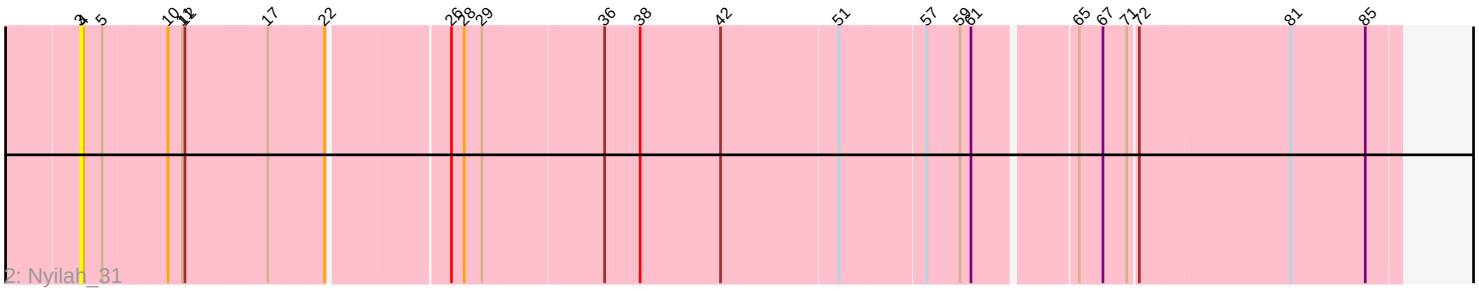
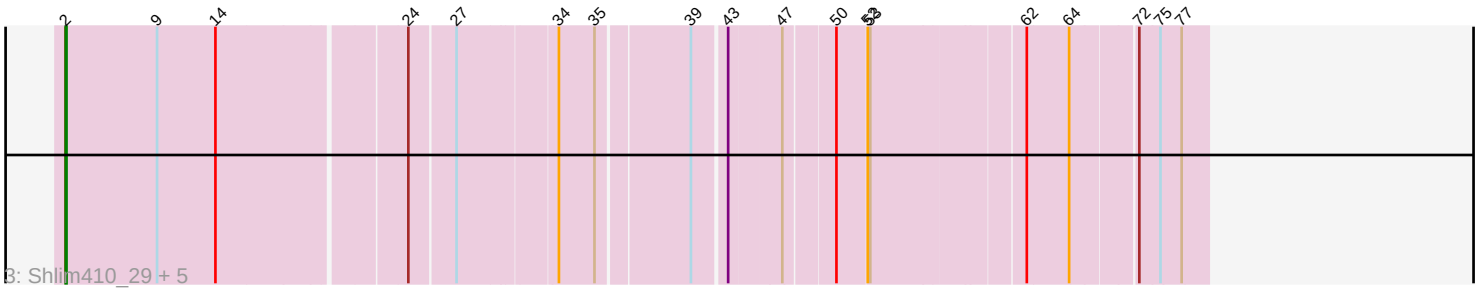
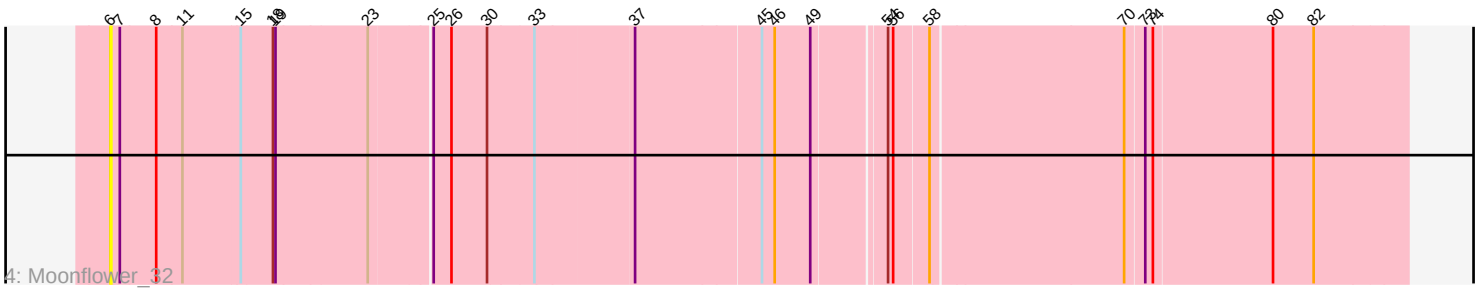
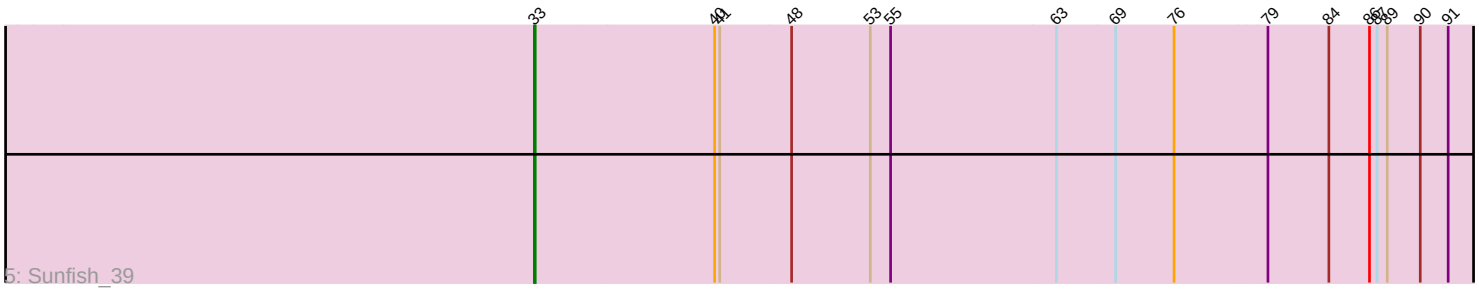
Pham 348248


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1: Raqqa_27


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2: Nyilah_31


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64
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75
77
3: Shlim410_29 + 5


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74
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4: Moonflower_32


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5: Sunfish_39

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 348248 Report

This analysis was run 11/14/26 on database version 672.

Pham number 348248 has 10 members, 3 are drafts.

Phages represented in each track:
• Track 1 : Raqqa_27
• Track 2 : Nyilah_31
• Track 3 : Shlim410_29, Adora_29, Hortense_29, Twinkle_29, Mcklovin_29, Howe_29
• Track 4 : Moonflower_32
• Track 5 : Sunfish_39

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

The start number called the most often in the published annotations is 2, it was called in 6 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Adora_29, Hortense_29, Howe_29, Mcklovin_29, Shlim410_29, Twinkle_29,

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

Genes that do not have the "Most Annotated" start:
• Moonflower_32, Nyilah_31, Raqqa_27, Sunfish_39,

Summary by start number:

Start 1:
• Found in 1 of 10 (10.0%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Raqqa_27 (AY),

Start 2:
• Found in 6 of 10 (60.0%) of genes in pham
• Manual Annotations of this start: 6 of 7
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Adora_29 (CZ4), Hortense_29 (CZ4), Howe_29 (CZ4), Mcklovin_29 (CZ4), Shlim410_29 (CZ4), Twinkle_29 (CZ4),

Start 3:
• Found in 1 of 10 (10.0%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Nyilah_31 (AY),

Start 6:
• Found in 1 of 10 (10.0%) of genes in pham
• No Manual Annotations of this start.
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Moonflower_32 (DB),

Start 33:
• Found in 2 of 10 (20.0%) of genes in pham
• Manual Annotations of this start: 1 of 7
• Called 50.0% of time when present
• Phage (with cluster) where this start called: Sunfish_39 (singleton),

Summary by clusters:

There are 4 clusters represented in this pham: AY, singleton, DB, CZ4,

Info for manual annotations of cluster CZ4:
•Start number 2 was manually annotated 6 times for cluster CZ4.

Gene Information:

Gene: Adora_29 Start: 24445, Stop: 25668, Start Num: 2
Candidate Starts for Adora_29:
(Start: 2 @24445 has 6 MA's), (9, 24553), (14, 24622), (24, 24826), (27, 24877), (34, 24979), (35, 25021), (39, 25123), (43, 25159), (47, 25216), (50, 25270), (52, 25303), (53, 25306), (62, 25474), (64, 25522), (72, 25591), (75, 25615), (77, 25639),

Gene: Hortense_29 Start: 24492, Stop: 25715, Start Num: 2
Candidate Starts for Hortense_29:
(Start: 2 @24492 has 6 MA's), (9, 24600), (14, 24669), (24, 24873), (27, 24924), (34, 25026), (35, 25068), (39, 25170), (43, 25206), (47, 25263), (50, 25317), (52, 25350), (53, 25353), (62, 25521), (64, 25569), (72, 25638), (75, 25662), (77, 25686),

Gene: Howe_29 Start: 24492, Stop: 25715, Start Num: 2
Candidate Starts for Howe_29:
(Start: 2 @24492 has 6 MA's), (9, 24600), (14, 24669), (24, 24873), (27, 24924), (34, 25026), (35, 25068), (39, 25170), (43, 25206), (47, 25263), (50, 25317), (52, 25350), (53, 25353), (62, 25521), (64, 25569), (72, 25638), (75, 25662), (77, 25686),

Gene: Mcklovin_29 Start: 26661, Stop: 27884, Start Num: 2

Candidate Starts for Mcklovin_29:
(Start: 2 @26661 has 6 MA's), (9, 26769), (14, 26838), (24, 27042), (27, 27093), (34, 27195), (35, 27237), (39, 27339), (43, 27375), (47, 27432), (50, 27486), (52, 27519), (53, 27522), (62, 27690), (64, 27738), (72, 27807), (75, 27831), (77, 27855),

Gene: Moonflower_32 Start: 26564, Stop: 28009, Start Num: 6
Candidate Starts for Moonflower_32:
(6, 26564), (7, 26573), (8, 26612), (11, 26642), (15, 26708), (18, 26744), (19, 26747), (23, 26852), (25, 26918), (26, 26939), (30, 26981), (Start: 33 @27032 has 1 MA's), (37, 27143), (45, 27287), (46, 27302), (49, 27344), (54, 27422), (56, 27428), (58, 27467), (70, 27686), (73, 27707), (74, 27716), (80, 27854), (82, 27902),

Gene: Nyilah_31 Start: 21590, Stop: 23026, Start Num: 3
Candidate Starts for Nyilah_31:
(3, 21590), (4, 21593), (5, 21614), (10, 21680), (11, 21695), (12, 21698), (17, 21791), (22, 21854), (26, 21986), (28, 22001), (29, 22022), (36, 22157), (38, 22193), (42, 22286), (51, 22421), (57, 22520), (59, 22553), (61, 22562), (65, 22673), (67, 22694), (71, 22721), (72, 22730), (81, 22904), (85, 22991),

Gene: Raqqa_27 Start: 20761, Stop: 22290, Start Num: 1
Candidate Starts for Raqqa_27:
(1, 20761), (11, 20932), (13, 20941), (16, 21019), (20, 21055), (21, 21085), (26, 21220), (31, 21268), (32, 21271), (44, 21529), (51, 21646), (60, 21787), (61, 21796), (66, 21934), (68, 21940), (71, 21964), (72, 21973), (78, 22054), (80, 22129), (81, 22150), (83, 22192), (88, 22258),

Gene: Shlim410_29 Start: 24492, Stop: 25715, Start Num: 2
Candidate Starts for Shlim410_29:
(Start: 2 @24492 has 6 MA's), (9, 24600), (14, 24669), (24, 24873), (27, 24924), (34, 25026), (35, 25068), (39, 25170), (43, 25206), (47, 25263), (50, 25317), (52, 25350), (53, 25353), (62, 25521), (64, 25569), (72, 25638), (75, 25662), (77, 25686),

Gene: Sunfish_39 Start: 21240, Stop: 22457, Start Num: 33
Candidate Starts for Sunfish_39:
(Start: 33 @21240 has 1 MA's), (40, 21450), (41, 21456), (48, 21540), (53, 21633), (55, 21657), (63, 21852), (69, 21921), (76, 21990), (79, 22098), (84, 22170), (86, 22218), (87, 22227), (89, 22239), (90, 22278), (91, 22311),

Gene: Twinkle_29 Start: 25551, Stop: 26774, Start Num: 2
Candidate Starts for Twinkle_29:
(Start: 2 @25551 has 6 MA's), (9, 25659), (14, 25728), (24, 25932), (27, 25983), (34, 26085), (35, 26127), (39, 26229), (43, 26265), (47, 26322), (50, 26376), (52, 26409), (53, 26412), (62, 26580), (64, 26628), (72, 26697), (75, 26721), (77, 26745),