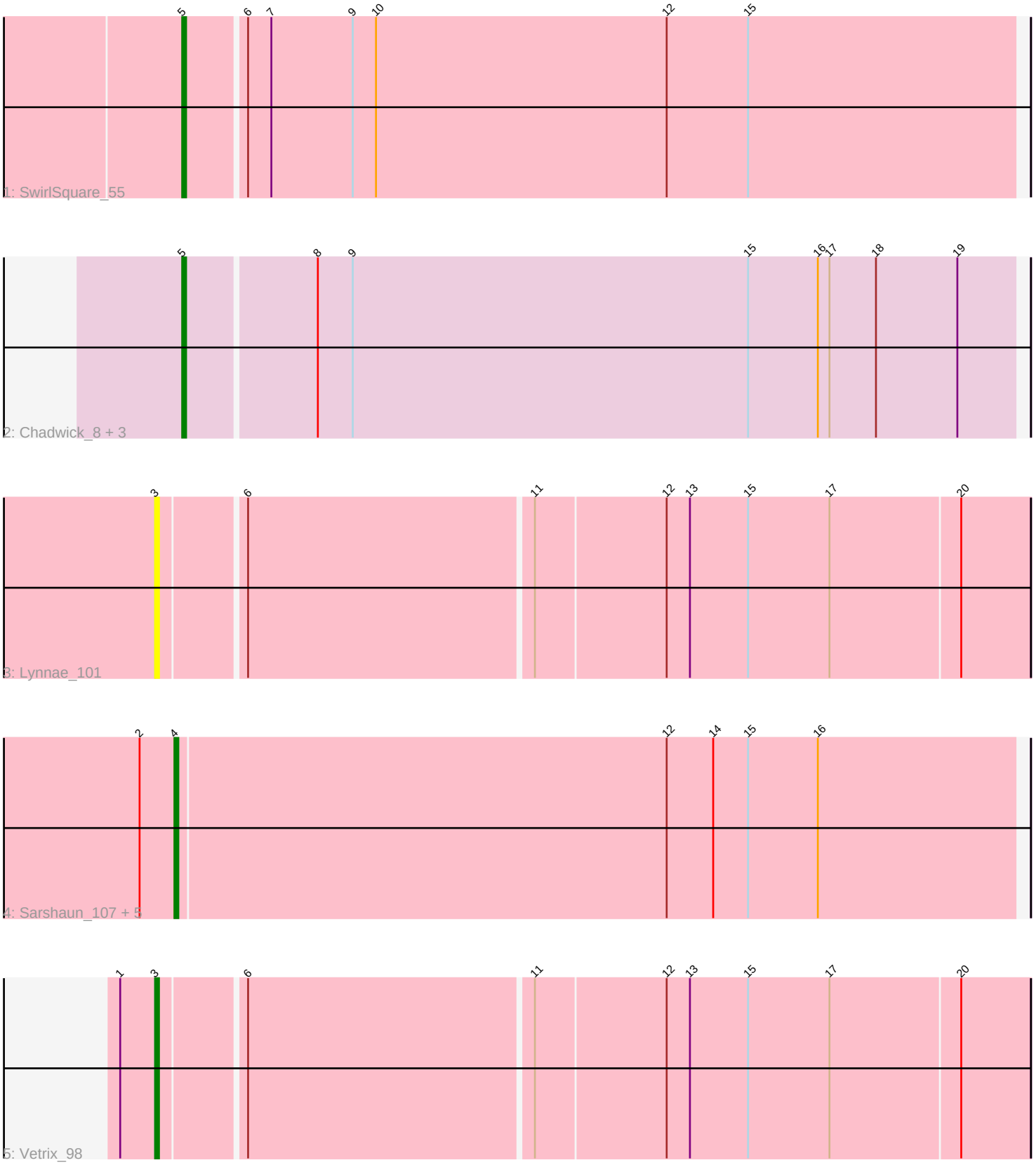
# Pham 342714


5
6
7
9
10
12
15
1: SwirlSquare_55
5
8
9
15
16
17
18
19
2: Chadwick_8 + 3
3
6
11
12
13
15
17
20
3: Lynnae_101
2
4
12
14
15
16
4: Sarshaun_107 + 5
1
3
6
11
12
13
15
17
20
5: Vetrix_98

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 342714 Report

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

Pham number 342714 has 13 members, 4 are drafts.

Phages represented in each track:
• Track 1 : SwirlSquare_55
• Track 2 : Chadwick_8, PetterN_8, Scorpia_8, Naca_7
• Track 3 : Lynnae_101
• Track 4 : Sarshaun_107, Soap141_106, Loadrie_106, Wigglewiggle_106, Hiraya_105, OverPar_110
• Track 5 : Vetrix_98

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

The start number called the most often in the published annotations is 5, it was called in 5 of the 9 non-draft genes in the pham.

Genes that call this "Most Annotated" start:
• Chadwick_8, Naca_7, PetterN_8, Scorpia_8, SwirlSquare_55,

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

Genes that do not have the "Most Annotated" start:
• Hiraya_105, Loadrie_106, Lynnae_101, OverPar_110, Sarshaun_107, Soap141_106, Vetrix_98, Wigglewiggle_106,

**Summary by start number:**

Start 3:
• Found in 2 of 13 ( 15.4% ) of genes in pham
• Manual Annotations of this start: 1 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Lynnae_101 (L2), Vetrix_98 (L2),

Start 4:
• Found in 6 of 13 ( 46.2% ) of genes in pham
• Manual Annotations of this start: 3 of 9
• Called 100.0% of time when present

• Phage (with cluster) where this start called: Hiraya_105 (L2), Loadrie_106 (L2), OverPar_110 (L2), Sarshaun_107 (L2), Soap141_106 (L2), Wigglewiggle_106 (L2),

Start 5:
• Found in 5 of 13 ( 38.5% ) of genes in pham
• Manual Annotations of this start: 5 of 9
• Called 100.0% of time when present
• Phage (with cluster) where this start called: Chadwick_8 (A5), Naca_7 (A5), PetterN_8 (A5), Scorpia_8 (A5), SwirlSquare_55 (A2),

**Summary by clusters:**

There are 3 clusters represented in this pham: A5, A2, L2,

Info for manual annotations of cluster A2:
•Start number 5 was manually annotated 1 time for cluster A2.

Info for manual annotations of cluster A5:
•Start number 5 was manually annotated 4 times for cluster A5.

Info for manual annotations of cluster L2:
•Start number 3 was manually annotated 1 time for cluster L2.
•Start number 4 was manually annotated 3 times for cluster L2.

***Gene Information:***

Gene: Chadwick_8 Start: 4941, Stop: 5153, Start Num: 5
Candidate Starts for Chadwick_8:
(Start: 5 @4941 has 5 MA's), (8, 4974), (9, 4983), (15, 5085), (16, 5103), (17, 5106), (18, 5118), (19, 5139),

Gene: Hiraya_105 Start: 62984, Stop: 63199, Start Num: 4
Candidate Starts for Hiraya_105:
(2, 62975), (Start: 4 @62984 has 3 MA's), (12, 63110), (14, 63122), (15, 63131), (16, 63149),

Gene: Loadrie_106 Start: 63305, Stop: 63520, Start Num: 4
Candidate Starts for Loadrie_106:
(2, 63296), (Start: 4 @63305 has 3 MA's), (12, 63431), (14, 63443), (15, 63452), (16, 63470),

Gene: Lynnae_101 Start: 61350, Stop: 61568, Start Num: 3
Candidate Starts for Lynnae_101:
(Start: 3 @61350 has 1 MA's), (6, 61371), (11, 61443), (12, 61476), (13, 61482), (15, 61497), (17, 61518), (20, 61551),

Gene: Naca_7 Start: 5055, Stop: 5267, Start Num: 5
Candidate Starts for Naca_7:
(Start: 5 @5055 has 5 MA's), (8, 5088), (9, 5097), (15, 5199), (16, 5217), (17, 5220), (18, 5232), (19, 5253),

Gene: OverPar_110 Start: 63305, Stop: 63520, Start Num: 4
Candidate Starts for OverPar_110:

(2, 63296), (Start: 4 @63305 has 3 MA's), (12, 63431), (14, 63443), (15, 63452), (16, 63470),

Gene: PetterN_8 Start: 4942, Stop: 5154, Start Num: 5
Candidate Starts for PetterN_8:
(Start: 5 @4942 has 5 MA's), (8, 4975), (9, 4984), (15, 5086), (16, 5104), (17, 5107), (18, 5119), (19, 5140),

Gene: Sarshaun_107 Start: 63812, Stop: 64027, Start Num: 4
Candidate Starts for Sarshaun_107:
(2, 63803), (Start: 4 @63812 has 3 MA's), (12, 63938), (14, 63950), (15, 63959), (16, 63977),

Gene: Scorpia_8 Start: 4943, Stop: 5155, Start Num: 5
Candidate Starts for Scorpia_8:
(Start: 5 @4943 has 5 MA's), (8, 4976), (9, 4985), (15, 5087), (16, 5105), (17, 5108), (18, 5120), (19, 5141),

Gene: Soap141_106 Start: 63812, Stop: 64027, Start Num: 4
Candidate Starts for Soap141_106:
(2, 63803), (Start: 4 @63812 has 3 MA's), (12, 63938), (14, 63950), (15, 63959), (16, 63977),

Gene: SwirlSquare_55 Start: 35253, Stop: 35041, Start Num: 5
Candidate Starts for SwirlSquare_55:
(Start: 5 @35253 has 5 MA's), (6, 35238), (7, 35232), (9, 35211), (10, 35205), (12, 35130), (15, 35109),

Gene: Vetrix_98 Start: 61194, Stop: 61412, Start Num: 3
Candidate Starts for Vetrix_98:
(1, 61185), (Start: 3 @61194 has 1 MA's), (6, 61215), (11, 61287), (12, 61320), (13, 61326), (15, 61341), (17, 61362), (20, 61395),

Gene: Wigglewiggle_106 Start: 62901, Stop: 63116, Start Num: 4
Candidate Starts for Wigglewiggle_106:
(2, 62892), (Start: 4 @62901 has 3 MA's), (12, 63027), (14, 63039), (15, 63048), (16, 63066),