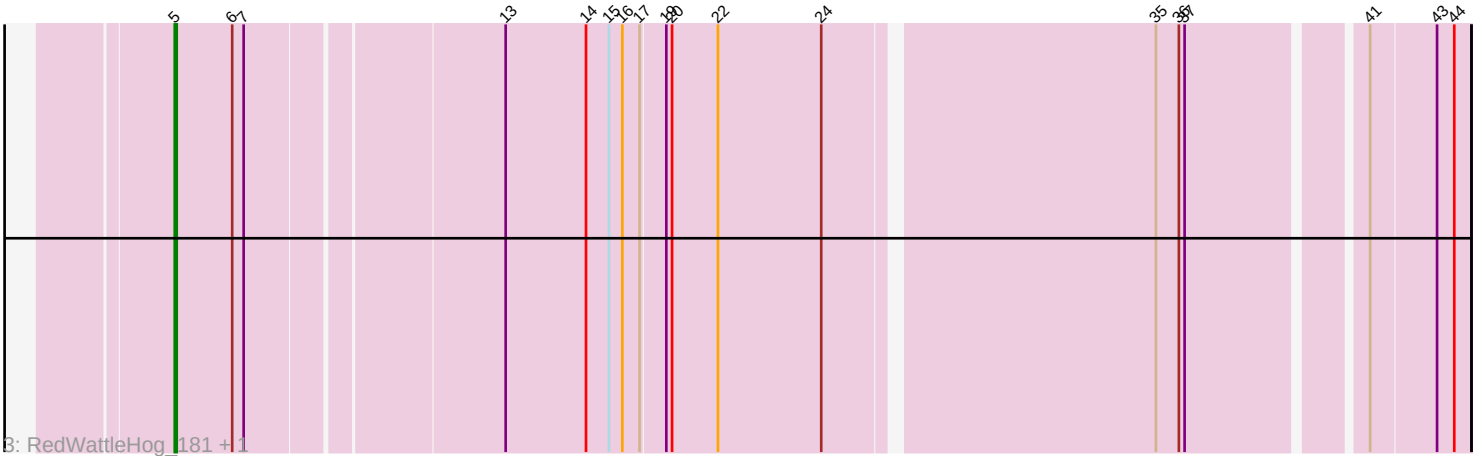
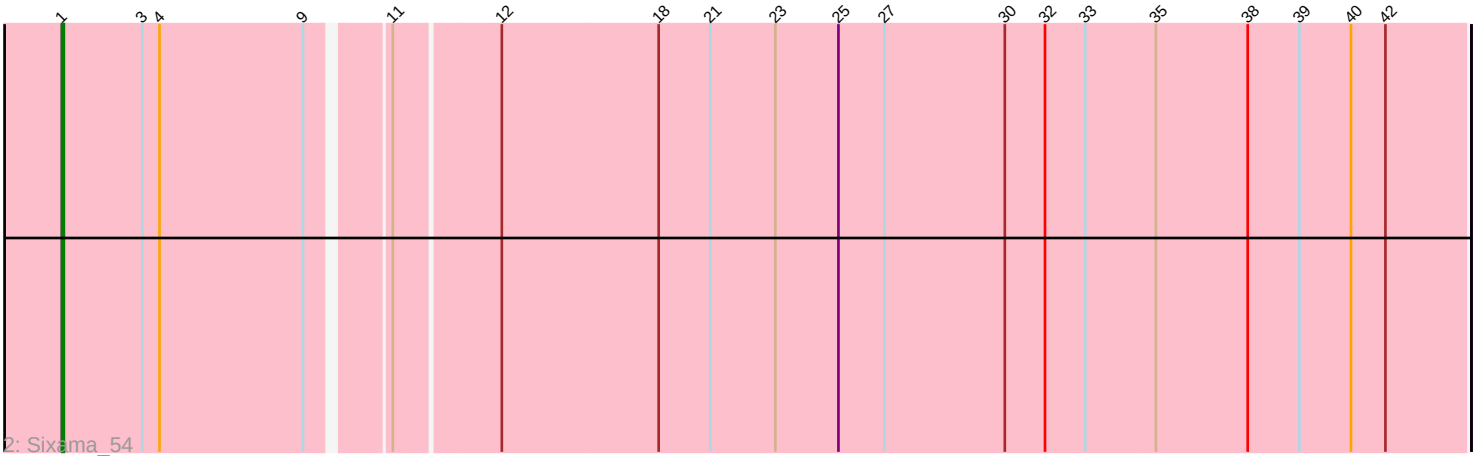
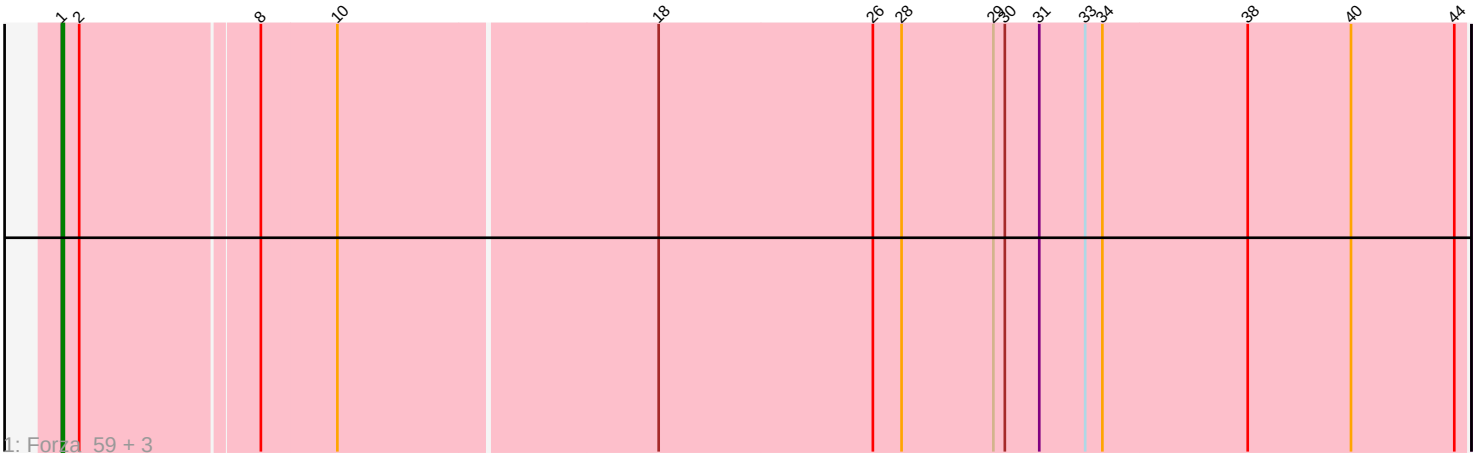




Note: Tracks are now grouped by subcluster and scaled. Switching in subcluster is indicated by changes in track color. Track scale is now set by default to display the region 30 bp upstream of start 1 to 30 bp downstream of the last possible start. If this default region is judged to be packed too tightly 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 310026 Report

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

Pham number 310026 has 7 members, 0 are drafts.

Phages represented in each track:

- Track 1 : Forza_59, Mareelih_58, Boopy_60, BlueNGold_58
- Track 2 : Sixama_54
- Track 3 : RedWattleHog_181, Stormageddon_182

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

The start number called the most often in the published annotations is 1, it was called in 5 of the 7 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- BlueNGold_58, Boopy_60, Forza_59, Mareelih_58, Sixama_54,

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

-

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

- RedWattleHog_181, Stormageddon_182,

Summary by start number:

Start 1:

- Found in 5 of 7 (71.4%) of genes in pham
- Manual Annotations of this start: 5 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: BlueNGold_58 (DS), Boopy_60 (DS), Forza_59 (DS), Mareelih_58 (DS), Sixama_54 (DS),

Start 5:

- Found in 2 of 7 (28.6%) of genes in pham
- Manual Annotations of this start: 2 of 7
- Called 100.0% of time when present
- Phage (with cluster) where this start called: RedWattleHog_181 (DX), Stormageddon_182 (DX),

Summary by clusters:

There are 2 clusters represented in this pham: DS, DX,

Info for manual annotations of cluster DS:

- Start number 1 was manually annotated 5 times for cluster DS.

Info for manual annotations of cluster DX:

- Start number 5 was manually annotated 2 times for cluster DX.

Gene Information:

Gene: BlueNGold_58 Start: 22130, Stop: 21411, Start Num: 1

Candidate Starts for BlueNGold_58:

(Start: 1 @22130 has 5 MA's), (2, 22121), (8, 22031), (10, 21992), (18, 21830), (26, 21719), (28, 21704), (29, 21656), (30, 21650), (31, 21632), (33, 21608), (34, 21599), (38, 21524), (40, 21470), (44, 21416),

Gene: Boopy_60 Start: 22142, Stop: 21423, Start Num: 1

Candidate Starts for Boopy_60:

(Start: 1 @22142 has 5 MA's), (2, 22133), (8, 22043), (10, 22004), (18, 21842), (26, 21731), (28, 21716), (29, 21668), (30, 21662), (31, 21644), (33, 21620), (34, 21611), (38, 21536), (40, 21482), (44, 21428),

Gene: Forza_59 Start: 22058, Stop: 21339, Start Num: 1

Candidate Starts for Forza_59:

(Start: 1 @22058 has 5 MA's), (2, 22049), (8, 21959), (10, 21920), (18, 21758), (26, 21647), (28, 21632), (29, 21584), (30, 21578), (31, 21560), (33, 21536), (34, 21527), (38, 21452), (40, 21398), (44, 21344),

Gene: Mareelih_58 Start: 21560, Stop: 20841, Start Num: 1

Candidate Starts for Mareelih_58:

(Start: 1 @21560 has 5 MA's), (2, 21551), (8, 21461), (10, 21422), (18, 21260), (26, 21149), (28, 21134), (29, 21086), (30, 21080), (31, 21062), (33, 21038), (34, 21029), (38, 20954), (40, 20900), (44, 20846),

Gene: RedWattleHog_181 Start: 113721, Stop: 114356, Start Num: 5

Candidate Starts for RedWattleHog_181:

(Start: 5 @113721 has 2 MA's), (6, 113751), (7, 113757), (13, 113883), (14, 113925), (15, 113937), (16, 113943), (17, 113952), (19, 113964), (20, 113967), (22, 113991), (24, 114045), (35, 114207), (36, 114219), (37, 114222), (41, 114306), (43, 114339), (44, 114348),

Gene: Sixama_54 Start: 20444, Stop: 19731, Start Num: 1

Candidate Starts for Sixama_54:

(Start: 1 @20444 has 5 MA's), (3, 20402), (4, 20393), (9, 20318), (11, 20282), (12, 20231), (18, 20150), (21, 20123), (23, 20090), (25, 20057), (27, 20033), (30, 19970), (32, 19949), (33, 19928), (35, 19892), (38, 19844), (39, 19817), (40, 19790), (42, 19772),

Gene: Stormageddon_182 Start: 114686, Stop: 115321, Start Num: 5

Candidate Starts for Stormageddon_182:

(Start: 5 @114686 has 2 MA's), (6, 114716), (7, 114722), (13, 114848), (14, 114890), (15, 114902), (16, 114908), (17, 114917), (19, 114929), (20, 114932), (22, 114956), (24, 115010), (35, 115172), (36, 115184), (37, 115187), (41, 115271), (43, 115304), (44, 115313),