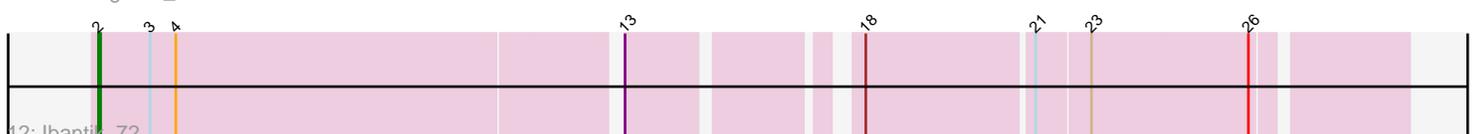
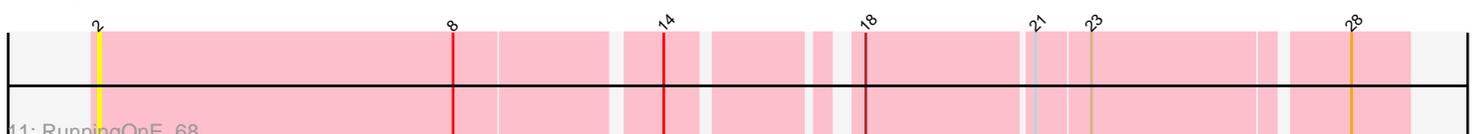
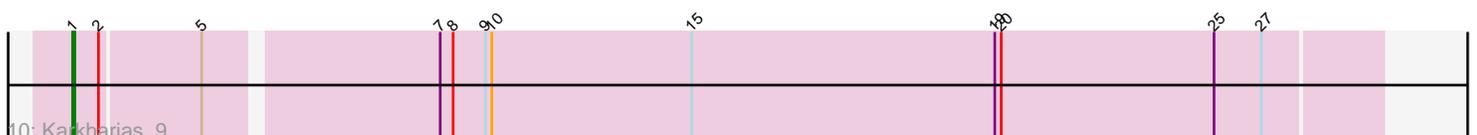
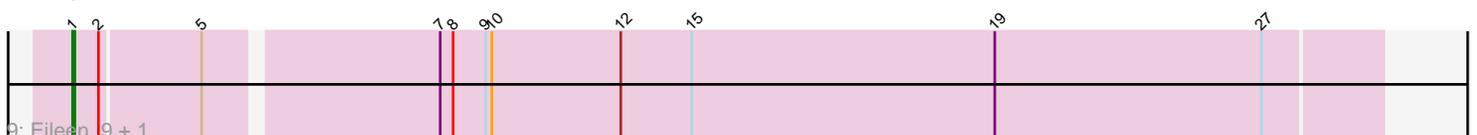
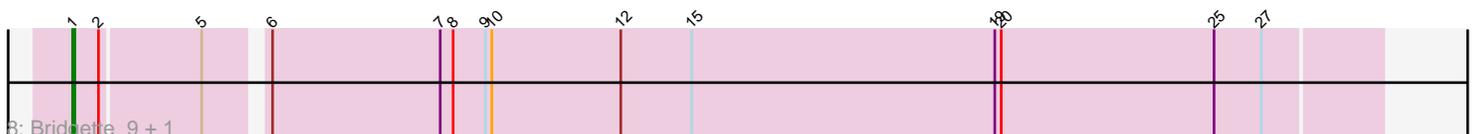
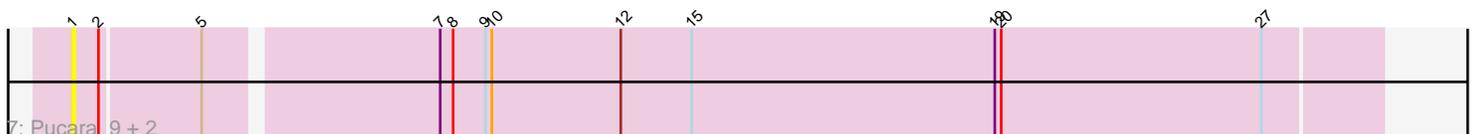
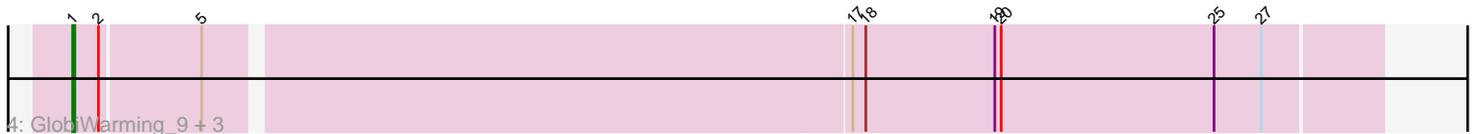
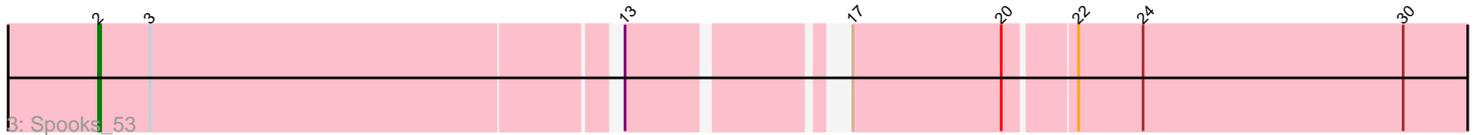
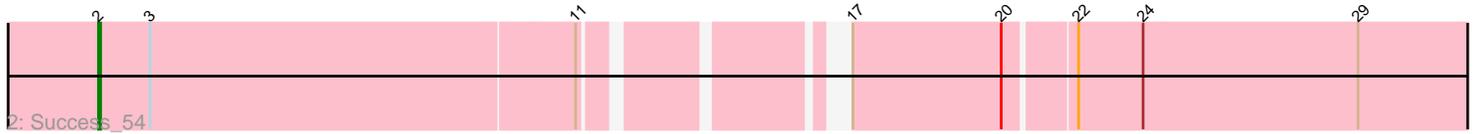
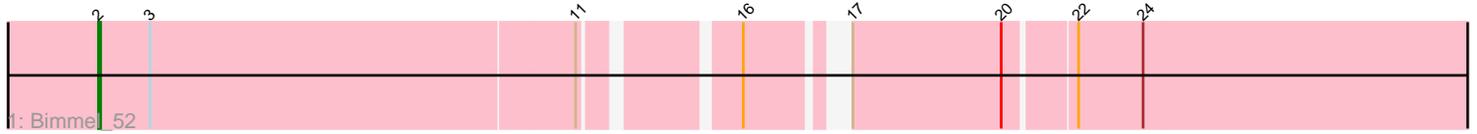


Pham 291520



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 291520 Report

This analysis was run 03/28/26 on database version 641.

Pham number 291520 has 23 members, 9 are drafts.

Phages represented in each track:

- Track 1 : Bimmel\_52
- Track 2 : Success\_54
- Track 3 : Spooks\_53
- Track 4 : GlobiWarming\_9, Judy\_9, NidoQ\_9, NikkiHotWheels\_9
- Track 5 : PeggyLeg03\_9, Constance\_9, FosterFrank\_9
- Track 6 : ChuckDuck\_9, LittleRon\_9, KayMoney\_9
- Track 7 : Pucara\_9, LilyBell\_9, HotPotato\_9
- Track 8 : Bridgette\_9, Henrique\_9
- Track 9 : Eileen\_9, Peas\_9
- Track 10 : Karkharias\_9
- Track 11 : RunningOnE\_68
- Track 12 : Ibantik\_72

### ***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 10 of the 14 non-draft genes in the pham.

Genes that call this "Most Annotated" start:

- Bridgette\_9, ChuckDuck\_9, Constance\_9, Eileen\_9, FosterFrank\_9, GlobiWarming\_9, Henrique\_9, HotPotato\_9, Judy\_9, Karkharias\_9, KayMoney\_9, LilyBell\_9, LittleRon\_9, NidoQ\_9, NikkiHotWheels\_9, Peas\_9, PeggyLeg03\_9, Pucara\_9,

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

- 

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

- Bimmel\_52, Ibantik\_72, RunningOnE\_68, Spooks\_53, Success\_54,

### **Summary by start number:**

Start 1:

- Found in 18 of 23 ( 78.3% ) of genes in pham

- Manual Annotations of this start: 10 of 14
- Called 100.0% of time when present
- Phage (with cluster) where this start called: Bridgette\_9 (FA), ChuckDuck\_9 (FA), Constance\_9 (FA), Eileen\_9 (FA), FosterFrank\_9 (FA), GlobiWarming\_9 (FA), Henrique\_9 (FA), HotPotato\_9 (FA), Judy\_9 (FA), Karkharias\_9 (FA), KayMoney\_9 (FA), LilyBell\_9 (FA), LittleRon\_9 (FA), NidoQ\_9 (FA), NikkiHotWheels\_9 (FA), Peas\_9 (FA), PeggyLeg03\_9 (FA), Pucara\_9 (FA),

Start 2:

- Found in 23 of 23 ( 100.0% ) of genes in pham
- Manual Annotations of this start: 4 of 14
- Called 21.7% of time when present
- Phage (with cluster) where this start called: Bimmel\_52 (BT), Ibantik\_72 (singleton), RunningOnE\_68 (UNK), Spooks\_53 (BT), Success\_54 (BT),

### Summary by clusters:

There are 4 clusters represented in this pham: BT, FA, singleton, UNK,

Info for manual annotations of cluster BT:

- Start number 2 was manually annotated 3 times for cluster BT.

Info for manual annotations of cluster FA:

- Start number 1 was manually annotated 10 times for cluster FA.

### Gene Information:

Gene: Bimmel\_52 Start: 30092, Stop: 30691, Start Num: 2

Candidate Starts for Bimmel\_52:

(Start: 2 @30092 has 4 MA's), (3, 30116), (11, 30311), (16, 30371), (17, 30404), (20, 30473), (22, 30503), (24, 30533),

Gene: Bridgette\_9 Start: 7210, Stop: 7803, Start Num: 1

Candidate Starts for Bridgette\_9:

(Start: 1 @7210 has 10 MA's), (Start: 2 @7222 has 4 MA's), (5, 7267), (6, 7291), (7, 7369), (8, 7375), (9, 7390), (10, 7393), (12, 7453), (15, 7486), (19, 7627), (20, 7630), (25, 7729), (27, 7750),

Gene: ChuckDuck\_9 Start: 7169, Stop: 7759, Start Num: 1

Candidate Starts for ChuckDuck\_9:

(Start: 1 @7169 has 10 MA's), (Start: 2 @7181 has 4 MA's), (5, 7226), (8, 7334), (17, 7517), (18, 7523), (19, 7583), (20, 7586), (25, 7685), (27, 7706),

Gene: Constance\_9 Start: 7215, Stop: 7805, Start Num: 1

Candidate Starts for Constance\_9:

(Start: 1 @7215 has 10 MA's), (Start: 2 @7227 has 4 MA's), (5, 7272), (18, 7569), (19, 7629), (20, 7632), (25, 7731), (27, 7752), (28, 7791),

Gene: Eileen\_9 Start: 7175, Stop: 7768, Start Num: 1

Candidate Starts for Eileen\_9:

(Start: 1 @7175 has 10 MA's), (Start: 2 @7187 has 4 MA's), (5, 7232), (7, 7334), (8, 7340), (9, 7355), (10, 7358), (12, 7418), (15, 7451), (19, 7592), (27, 7715),

Gene: FosterFrank\_9 Start: 7173, Stop: 7763, Start Num: 1

Candidate Starts for FosterFrank\_9:

(Start: 1 @7173 has 10 MA's), (Start: 2 @7185 has 4 MA's), (5, 7230), (18, 7527), (19, 7587), (20, 7590), (25, 7689), (27, 7710), (28, 7749),

Gene: GlobiWarming\_9 Start: 7170, Stop: 7760, Start Num: 1

Candidate Starts for GlobiWarming\_9:

(Start: 1 @7170 has 10 MA's), (Start: 2 @7182 has 4 MA's), (5, 7227), (17, 7518), (18, 7524), (19, 7584), (20, 7587), (25, 7686), (27, 7707),

Gene: Henrique\_9 Start: 7171, Stop: 7764, Start Num: 1

Candidate Starts for Henrique\_9:

(Start: 1 @7171 has 10 MA's), (Start: 2 @7183 has 4 MA's), (5, 7228), (6, 7252), (7, 7330), (8, 7336), (9, 7351), (10, 7354), (12, 7414), (15, 7447), (19, 7588), (20, 7591), (25, 7690), (27, 7711),

Gene: HotPotato\_9 Start: 7175, Stop: 7768, Start Num: 1

Candidate Starts for HotPotato\_9:

(Start: 1 @7175 has 10 MA's), (Start: 2 @7187 has 4 MA's), (5, 7232), (7, 7334), (8, 7340), (9, 7355), (10, 7358), (12, 7418), (15, 7451), (19, 7592), (20, 7595), (27, 7715),

Gene: Ibantik\_72 Start: 34097, Stop: 34657, Start Num: 2

Candidate Starts for Ibantik\_72:

(Start: 2 @34097 has 4 MA's), (3, 34121), (4, 34133), (13, 34331), (18, 34421), (21, 34496), (23, 34520), (26, 34592),

Gene: Judy\_9 Start: 7214, Stop: 7804, Start Num: 1

Candidate Starts for Judy\_9:

(Start: 1 @7214 has 10 MA's), (Start: 2 @7226 has 4 MA's), (5, 7271), (17, 7562), (18, 7568), (19, 7628), (20, 7631), (25, 7730), (27, 7751),

Gene: Karkharias\_9 Start: 7171, Stop: 7764, Start Num: 1

Candidate Starts for Karkharias\_9:

(Start: 1 @7171 has 10 MA's), (Start: 2 @7183 has 4 MA's), (5, 7228), (7, 7330), (8, 7336), (9, 7351), (10, 7354), (15, 7447), (19, 7588), (20, 7591), (25, 7690), (27, 7711),

Gene: KayMoney\_9 Start: 7171, Stop: 7761, Start Num: 1

Candidate Starts for KayMoney\_9:

(Start: 1 @7171 has 10 MA's), (Start: 2 @7183 has 4 MA's), (5, 7228), (8, 7336), (17, 7519), (18, 7525), (19, 7585), (20, 7588), (25, 7687), (27, 7708),

Gene: LilyBell\_9 Start: 7186, Stop: 7779, Start Num: 1

Candidate Starts for LilyBell\_9:

(Start: 1 @7186 has 10 MA's), (Start: 2 @7198 has 4 MA's), (5, 7243), (7, 7345), (8, 7351), (9, 7366), (10, 7369), (12, 7429), (15, 7462), (19, 7603), (20, 7606), (27, 7726),

Gene: LittleRon\_9 Start: 7169, Stop: 7759, Start Num: 1

Candidate Starts for LittleRon\_9:

(Start: 1 @7169 has 10 MA's), (Start: 2 @7181 has 4 MA's), (5, 7226), (8, 7334), (17, 7517), (18, 7523), (19, 7583), (20, 7586), (25, 7685), (27, 7706),

Gene: NidoQ\_9 Start: 7232, Stop: 7822, Start Num: 1

Candidate Starts for NidoQ\_9:

(Start: 1 @7232 has 10 MA's), (Start: 2 @7244 has 4 MA's), (5, 7289), (17, 7580), (18, 7586), (19, 7646), (20, 7649), (25, 7748), (27, 7769),

Gene: NikkiHotWheels\_9 Start: 7172, Stop: 7762, Start Num: 1

Candidate Starts for NikkiHotWheels\_9:

(Start: 1 @7172 has 10 MA's), (Start: 2 @7184 has 4 MA's), (5, 7229), (17, 7520), (18, 7526), (19, 7586), (20, 7589), (25, 7688), (27, 7709),

Gene: Peas\_9 Start: 7175, Stop: 7768, Start Num: 1

Candidate Starts for Peas\_9:

(Start: 1 @7175 has 10 MA's), (Start: 2 @7187 has 4 MA's), (5, 7232), (7, 7334), (8, 7340), (9, 7355), (10, 7358), (12, 7418), (15, 7451), (19, 7592), (27, 7715),

Gene: PeggyLeg03\_9 Start: 7215, Stop: 7805, Start Num: 1

Candidate Starts for PeggyLeg03\_9:

(Start: 1 @7215 has 10 MA's), (Start: 2 @7227 has 4 MA's), (5, 7272), (18, 7569), (19, 7629), (20, 7632), (25, 7731), (27, 7752), (28, 7791),

Gene: Pucara\_9 Start: 7174, Stop: 7767, Start Num: 1

Candidate Starts for Pucara\_9:

(Start: 1 @7174 has 10 MA's), (Start: 2 @7186 has 4 MA's), (5, 7231), (7, 7333), (8, 7339), (9, 7354), (10, 7357), (12, 7417), (15, 7450), (19, 7591), (20, 7594), (27, 7714),

Gene: RunningOnE\_68 Start: 32829, Stop: 33389, Start Num: 2

Candidate Starts for RunningOnE\_68:

(Start: 2 @32829 has 4 MA's), (8, 32994), (14, 33081), (18, 33153), (21, 33228), (23, 33252), (28, 33363),

Gene: Spooks\_53 Start: 31393, Stop: 31992, Start Num: 2

Candidate Starts for Spooks\_53:

(Start: 2 @31393 has 4 MA's), (3, 31417), (13, 31624), (17, 31705), (20, 31774), (22, 31804), (24, 31834), (30, 31954),

Gene: Success\_54 Start: 30512, Stop: 31111, Start Num: 2

Candidate Starts for Success\_54:

(Start: 2 @30512 has 4 MA's), (3, 30536), (11, 30731), (17, 30824), (20, 30893), (22, 30923), (24, 30953), (29, 31052),